



Environment Agency

PHASE 3 - RESIDENTIAL SOILS INVESTIGATION, THORNTON- CLEVELEYS

Factual Report





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V2.0 CONFIDENTIAL

PROJECT NO. 70100310

OUR REF. NO. 70100310/12294

DATE: MARCH 2026



QUALITY CONTROL

Issue/revision	First issue	Second Issue	Third Issue
Remarks	Draft for client comment	V2.0 addressing client comments	V3.0 Final
Date	February 2026	March 2026	March 2026
Prepared by			
Signature			
Checked by			
Signature			
Authorised by			
Signature			
Project number	70100310	70100310	70100310
Report number	70100310/12294	70100310/12294	70100310/12294

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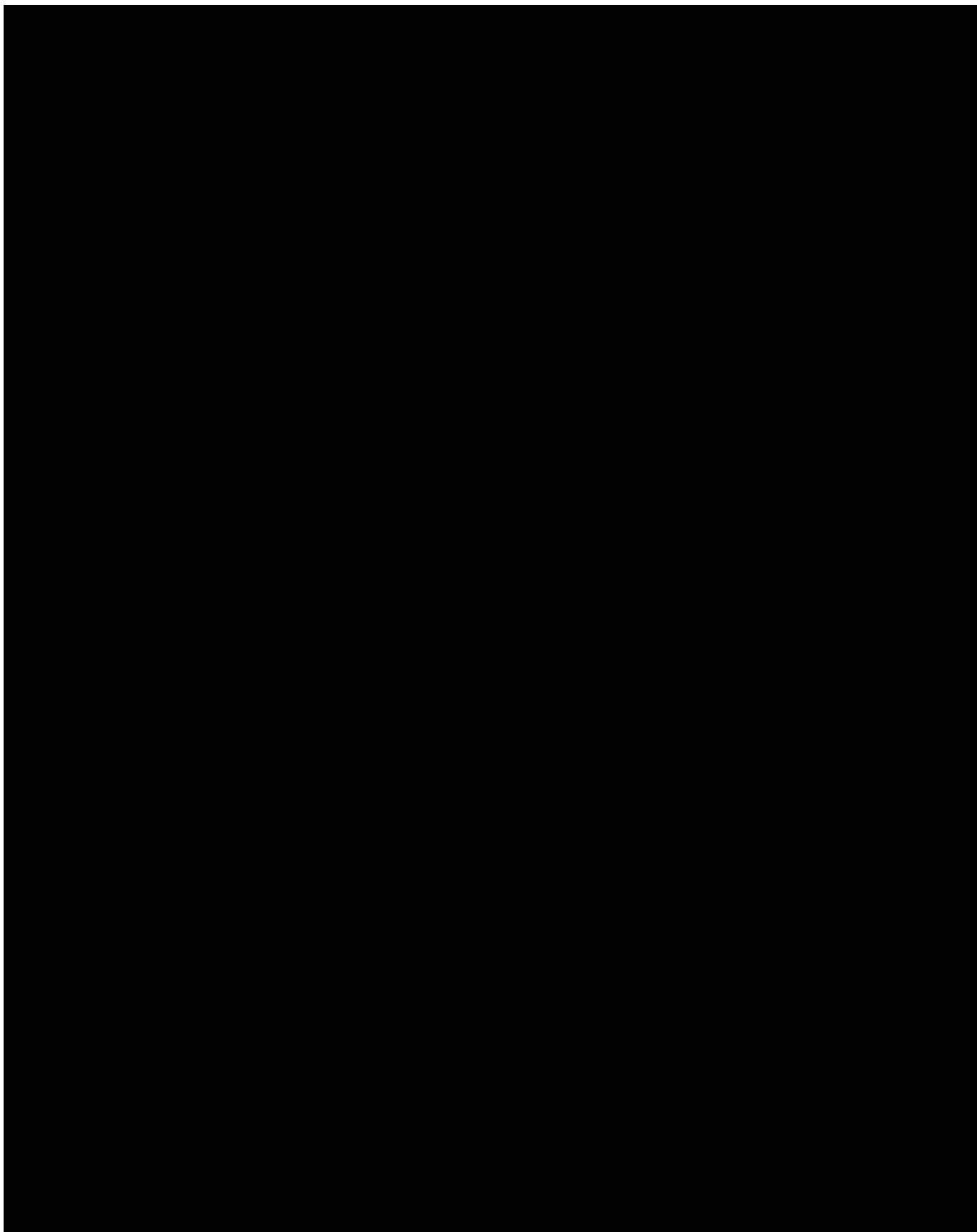
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1. INTRODUCTION

1.1. TERMS OF REFERENCE

WSP UK Ltd (WSP) was instructed by the Environment Agency (EA, 'the Client') to undertake a grid-based soil investigation in the area surrounding the AGC Chemicals Europe Limited (AGCCE) manufacturing facility (referred to herein as the 'AGCCE facility') located within Thornton-Cleveleys. These works form the third phase (Phase 3) of investigation being conducted by WSP on behalf of the EA, which commenced in September 2024.

This report sets out a factual account of the Phase 3 Grid Investigation undertaken between October and November 2025. Follow up reporting will provide the interpretation of the dataset, including data obtained during earlier phases, where relevant. A Sampling Location Plan is included as Figure 1 within Appendix A.

Works were undertaken under the HSE, 2015. Construction (Design & Management) Regulations (CDM) [4] where WSP were Principal Contractor and Designer.

1.2. PROJECT CONTEXT AND BACKGROUND

The investigation findings presented herein form part of a wider Part 2A inspection that is investigating potentially significant contaminant linkages that may be attributed to legacy emissions from the former ICI site, now the AGCCE facility. Aerial deposition of PFOA is considered to result from historical airborne emissions associated with the AGCCE facility and former site operators.

As part of earlier phases of works [1][2][3], a number of plausible contaminant linkages were identified attributed to legacy operations that warrant further investigation or quantification in accordance with EA, 2020, Land Contamination Risk Management (LCRM) [5] and to be compliant with investigation requirements under Part 2A of the Environmental Protection Act, 1990 [6].

The potential risk to human health from legacy aerial deposition of perfluorooctanoic acid (PFOA) in shallow soils associated with the AGCCE facility has been identified as a priority for further consideration.

The wider investigation is being undertaken through a two tracked, phased and iterative approach, defined as follows:

- Track 1 refers to the wider assessment of contaminant dispersion across the area.
- Track 2 is a more targeted Part 2A compliant assessment of specific parcels of land where evidence indicates a potentially unacceptable risk.

It is recognised that the investigation into offsite impacts and their significance in the context of Part 2A requires a phased / iterative process. The investigation of shallow soils within residential gardens across land at Thornton-Cleveleys presented herein forms part of the third phase of investigation works, comprising a combined Track 1 and Track 2 assessment.

Whilst this report considers contaminant linkages associated with health risks from potential soil contamination, the Part 2A inspection also includes other linkages of concern from the facility, including the risk to the water environment.

1.3. PREVIOUS REPORTS

- Earlier phases of works pertaining to the site are documented in the following reports:
- WSP, 17 February 2025. Desk Study: AGC Chemicals Europe Ltd Facility, Thornton-Cleveleys (ref: 70100310-12157(5) [1]
- WSP, 12 December 2024. Site at Thornton-Cleveleys, Factual Report from Preliminary Phase of Offsite Soils Investigation (ref: 70100310/12232(2) [2]
- WSP, July 2025. Residential Grid-Based Investigation, Thornton-Cleveleys (ref: 70100310/12258) [3]

1.4. REMIT

Based upon the findings of the Preliminary (Phase 1) [2] and Phase 2 [3] works a potentially significant contaminant linkage was identified between PFOA in shallow soils and residents with private gardens who grow or have the potential to grow home grown produce for consumption. Phase 3 has been undertaken to more robustly understand the potential significance of this contaminant linkage.

The Phase 3 works elements and associated remit and rationale are defined within Table 1-1.

Table 1-1 – Remit and Rationale for Proposed Sampling Activities

Phase 3 Works Elements	Remit and Rationale
Detailed (Track 2) shallow soil sampling within gardens of a select number of properties within the area indicated of higher potential deposition (south-east of facility) - referenced as 'GR03'.	The findings of the Phase 2 grid assessment indicated a potential area of high deposition oriented in the prevailing wind direction to the south-east of the facility. The maximum concentration observed (144ug/kg) at the maximum sampling radius of 500m indicated a potential for deposition extending beyond the 500m radius of investigation to date. Observed concentrations in this orientation indicate that a significant contaminant linkage could reasonably exist between PFOA in shallow soils and residents with gardens who grow or have the potential to grow home grown produce for consumption. Further detailed sampling within residential development, to a radius of 1km within the south-east orientation, was proposed to enable data validation of Phase 2 findings and extrapolation across the wider area. A statistically valid number of test locations was required per garden to facilitate Part 2A risk assessment and decision making for each plot.
Further sampling within gardens of selected properties within wider residential areas to the south, west and north to provide coverage (Track 1).	Further sampling within residential development within the south-west orientation proposed to provide coverage, enable data validation of Phase 2 findings and extrapolation across the wider area.

Phase 3 Works Elements	Remit and Rationale
Detailed (Track 2) investigation of selected properties where an exceedance of the interim C4SL was identified as part of the Phase 2 grid investigation - referenced as 'GR04'.	
Detailed (Track 2) shallow soil sampling within gardens from a selection of poultry keepers within the vicinity of the facility, including egg samples - referenced as 'POUL'.	Research and literature evidence indicates, due to the bio accumulative nature of PFAS, the consumption of home-produced chicken/poultry eggs represents an exposure pathway to poultry keepers where the poultry are exposed to PFAS in soils where they roam. To assess this exposure pathway, sampling of a selection of residential properties registered as poultry keepers within the study zone was proposed. This included representative shallow soil samples for a comprehensive Part 2A assessment, and eggs for sampling as a secondary line of evidence / key exposure route to assess impact to health. Formulation of a questionnaire to be provided to the poultry keepers to understand the amount of consumption relative to shop bought eggs, as well as details regarding the living environment that may affect the poultry exposure to potentially impacted shallow soils and/or other potential exposure routes to PFAS.

1.5. SCOPE OF WORK

The scope of works for the residential Phase 3 Grid Investigation comprised the following:

- Selection of properties to target for shallow soil sampling within gardens based on the previous phase findings, focusing on high deposition areas, lower deposition areas and poultry owners within a 1km radius of the factory. A higher density of properties were selected to the south-east (approximate 50m grid spacing). Property selection was influenced by the need for a private garden with available and accessible soft surfacing (i.e. lawn, flower beds, vegetable patch) to facilitate sampling compared to a wider spacing (200m+ beyond 500m radius of the facility) within the wider area to provide coverage. Some properties previously sampled in Phase 2 were returned to in order to generate a bigger sample size for that property (suitable for statistical assessment where a detailed Track 2 investigation was undertaken) and additional properties were sampled for the first time to increase the overall density of properties sampled. Wyre Council were responsible for contacting residents / landowners based on the identified properties to confirm they meet the criteria to facilitate sampling (available soft surfacing and no significant import or export of soils during their ownership) and for obtaining the necessary consents and access permissions ahead of sampling. All properties approached were privately owned. Where a consent for sampling was not granted, an alternative property was sought within the immediate vicinity (i.e. immediate neighbours or properties opposite or backing on).

- Review of historical maps, utility plans and unexploded ordnance (UXO) data for the area of investigation.
- Preparation of a Construction Phase Plan (CPP) [7] to include risk assessments and method statements for the proposed works, in accordance with the CDM Regulations, 2015 [4].
- Service identification and service clearance by a specialist third party contractor and provision of surveying coordinates of all exploratory hole locations.
- Shallow soil assessment within 1km radius of the AGCCE facility targeting residential properties / sample points with private gardens and known poultry keepers. Progression of between 1 and 7 hand dug pits (not including duplicates) per property / sample point by a specialist contractor to depths of up to 0.6m bgl. The number of pits varied per sample point depending on whether the sample point was located in a higher or lower potential deposition area or if it had been visited previously during Phase 2. Soil sample collection at up to three depths within the shallow vertical profile.
- Collection of duplicate samples in accordance with British Standard (BS) 10175 [9] at properties / sample points where a Track 2 investigation was proposed.
- Analysis of all soil samples obtained for a specified suite of contaminants at ALS Laboratories (UKAS accredited) comprising PFAS Broad Suite (ALS laboratory method TM440, PFOA, Perfluorooctanesulfonic acid (PFOS), Perfluorononanoic acid (PFNA) and Perfluorohexane sulfonate (PFHxS) at a limit of detection / method detection limit (LOD/MDL) of 0.5µg/kg), in addition to soil organic matter (SOM) and pH.
- Analysis of a subset of soil samples (equivalent of 10% of samples obtained) for PFOA branched and linear isomers by Mérieux NutriSciences Italia.
- Collection of eggs from properties with poultry for laboratory testing for EFSA (European Food Safety Authority) four compounds (PFOA, PFOS, PFNA and PFHxS).
- Collection and analysis of quality assurance / quality control (QA/QC) samples in the form of equipment rinsates, analysed for PFAS Broad Suite (ALS method TM434) at a frequency equivalent to approximately 10% of soil samples obtained.
- Collection of questionnaire responses from residents to establish a wide range of information including whether they: grow fruit and/or vegetables for consumption, have astro turf, have undertaken any garden landscaping works including the import/export of soils, use composts/manures for soil conditioning, and to provide background and context.
- Collection of additional questionnaires responses for poultry keepers to understand the amount of consumption relative to shop bought eggs, as well as details regarding the living environment that may affect the poultry exposure to potentially impacted soils and/or other potential exposure routes to PFAS.
- Factual reporting.

1.6. LEGISLATIVE CONTEXT AND GUIDANCE

The investigation was undertaken in general accordance with the following standards and guidance documents:

- British Standard (BS) 5930:2015 +A1:2020 Code of Practice for Ground Investigation [8].
- BS 10175:2011+A2:2017, Investigation of Potentially Contaminated Sites, Code of Practice [9] (relevant at the time of the investigation, although recently updated in 2026).
- Health & Safety Executive (HSE), 2015. Construction (Design and Management) Regulations [4].
- EA, 2020. Land Contamination Risk Management (LCRM) [5].
- Part 2A of the Environmental Protection Act, 1990 [6].
- Department for Environment, Food and Rural Affairs (Defra), 2012. Contaminated Land Statutory Guidance [11].

1.7. LIMITATIONS

The report is addressed to and may be relied upon by the EA, as “the Client” within the meaning given to that phrase within the agreement and subject to the terms and conditions contained therein.

This report has been completed with regard to generally accepted consulting practices and may not be relied upon by any other party without the explicit written agreement of WSP. No other third-party warranty, expressed or implied, is made as to the professional advice included in this report. This report must be used in its entirety.

Unless WSP has actual knowledge to the contrary, WSP has assumed the correctness and completeness of third-party information supplied and shall have no liability in respect of any inaccuracy, defect or omission in any information or materials provided, anecdotally or otherwise, by the Client or any other third party to WSP. WSP does not assume any liability for misrepresentation of information or for items not visible, accessible, present or supplied at the time of the study.

WSP’s General Limitations are included in Appendix B.

2. BACKGROUND AND SITE DETAIL

2.1. PHASES OF INVESTIGATION

A preliminary (Track 1) shallow soils investigation [2] was undertaken between September and October 2024 across 22 council owned land parcels within a 5km radius of the AGCCE facility. The results of this Track 1 investigation and an independent air dispersion modelling assessment undertaken by the EA AQMAU [12] indicated the presence of a potentially significant contaminant linkage between legacy aerial deposition of PFOA in soils and residents with gardens who grow or have the potential to grow home grown produce for consumption.

A Phase 2 (Track 1) Grid Investigation [3] was developed and completed between February and March 2025 to gain further information on this potentially significant contaminant linkage. The investigation included sampling of shallow soils from the gardens of 46 residential properties located within a 500m radius of the AGCCE facility to the south-east, south and south-west. The results of PFOA analyses aligned with the EA AQMAU dispersion modelling in indicating an area of potential higher deposition to the south-east compared to the wider areas of residential development radial to the AGCCE facility.

The Phase 3 Investigation of Residential Properties was designed to improve understanding of, and confidence in PFOA soil concentration variability seen at certain locations and across the study area in Phase 2 by incorporating the following elements:

- Track 2 investigation in the area of potential higher deposition to the south-east to the maximum extent of residential development in this orientation, within a 1km radius.
- Enhancement of the Track 1 investigation across the wider area up to a 1km radius of the AGCCE facility by increasing the density of properties sampled.
- Track 2 soils investigation at properties where poultry are kept and free to roam within open gardens, including sampling of eggs from ducks and chicken kept at those properties.

A more detailed rationale of the scope for Phase 3 is included within Table 1-1. A summary of the investigation phases and investigation track is provided in Table 2-1.

Table 2-1 – Soil Investigation Phase and Track Summary

Investigation Phase	Soil Investigation Track (see footnotes)
Phase 1	Track 1 – preliminary investigation of council owned land parcels within 5km radius of the facility (no residential properties)
Phase 2	Track 1 - preliminary investigation of residential properties to the south-east, south, south-west and west of the facility (roughly 100-150m grid spacing) within a 500m radius of the facility
Phase 3	Track 1 – enhanced preliminary investigation of residential properties within the wider area to the south, south-west, west and north-west within a 1km radius of the facility

Investigation Phase	Soil Investigation Track (see footnotes)
	Track 2 – detailed investigation of residential properties within the area of potential higher deposition to the south-east to generate a sample dataset suitable for statistical assessment Track 2 – detailed investigation of properties investigated during Phase 2 where an elevated concentration of PFOA was identified in soil (including properties to the south-east and within the wider area) Track 2 – detailed investigation of properties where poultry are kept and free to roam within the garden, including the collection of eggs from ducks and chicken kept at that property
Track 1 refers to the wider assessment of contaminant dispersion across the area. Track 2 is a more targeted Part 2A compliant assessment of specific parcels of land where evidence indicates a potentially unacceptable risk.	

The location of the land sampled as part of Phases 2 and 3 soils investigations is shown in Figure 1 in Appendix A.

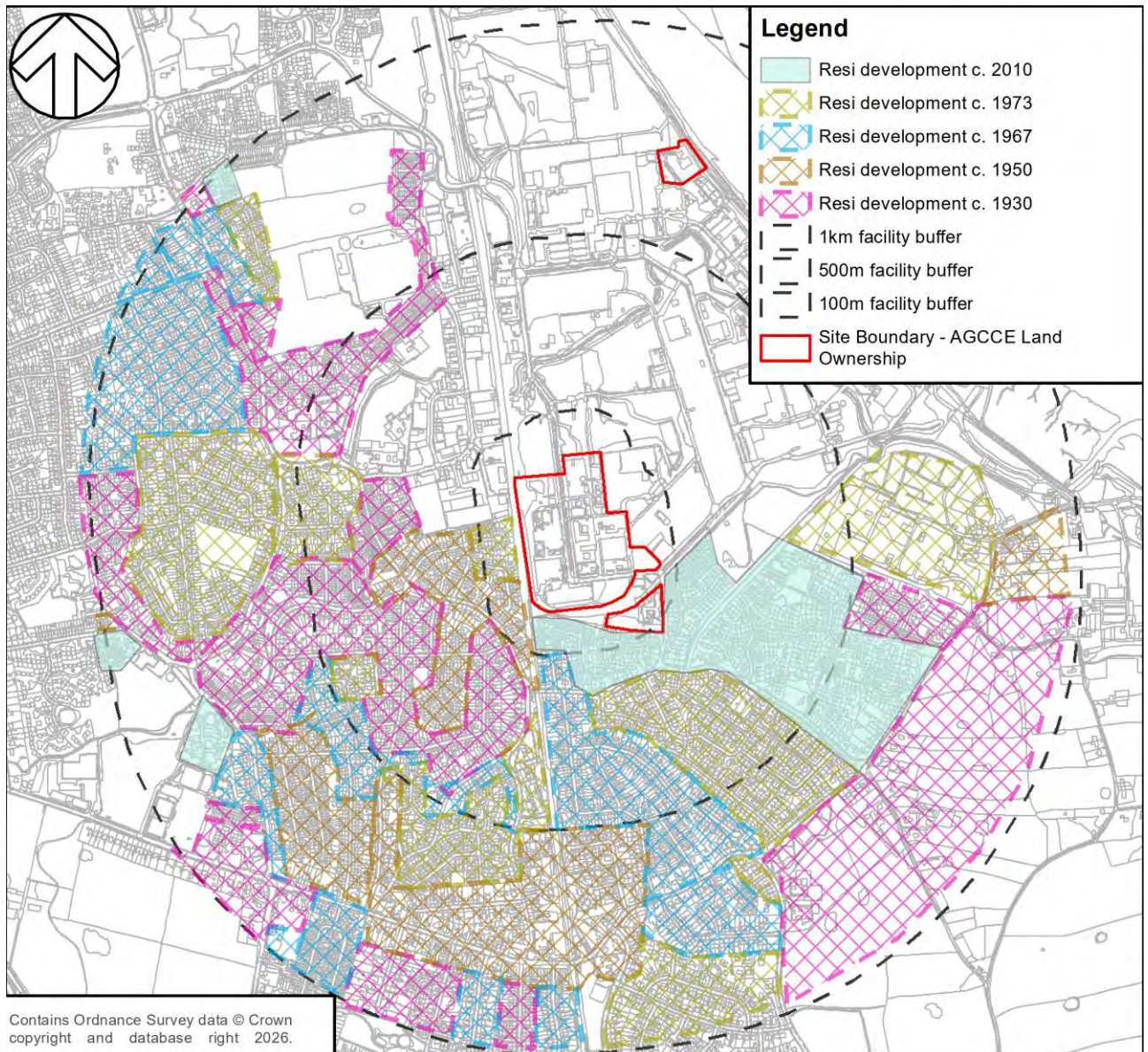
A summary of the findings from the previous phases of investigation is presented in Section 2.3 and 2.4 below.

2.2. DEVELOPMENT HISTORY - GRID SAMPLING AREA

A high-level desk study review [1] has been completed of the residential areas radial of the facility where sampling has been proposed, which included review of historical land use and development history (including the potential for earthworks / ground disturbance / importing of soils i.e. associated with residential capping layers). Details are provided within Appendix C.

In summary, low rise residential development has gradually occurred over the mapping period with initial residential development being constructed between 1910 and the 1960s, with most development in this period appearing to occur to the west and south of the AGCCE facility. The industrial site was first seen on mapping from 1951. Newer housing estates seen from the mid-1960s onwards gradually expand into the eastern area until 2010, when the full current residential extent is shown.

Insert 2-1 – Phase 3 Grid Sampling Area - Approximate Residential Development History



2.3. PRELIMINARY OFFSITE GROUND INVESTIGATION (SEPTEMBER 2024)

A detailed account of the offsite Preliminary Investigation is provided within the Factual Report [2]. In summary, the works were undertaken to provide an initial indication of PFOA concentrations in shallow soil radial to the AGCCE facility at distances up to 5km.

A total of 199 No. shallow soil samples were analysed, from a range of land uses, across 22 separate council owned land parcels, including school playing fields, public open space and parks. The sampling works confirmed the presence of PFOA above the LOD in 187 out of 199 samples (representing ~94%) at concentrations up to 35.1µg/kg, suggesting widespread impact of PFOA within surrounding soils.

As previously mentioned, the available council owned land within residential areas located 500m of the facility and within modelled high-risk areas of deposition was limited and therefore the general area to the south, south-west and south-east was not sampled as part of the Preliminary Phase [2].

2.4. PHASE 2 GRID INVESTIGATION

The Phase 2 Grid Investigation was undertaken to provide further information on the plausible contaminant linkages that were previously identified as being attributable to legacy operations at the AGCCE facility. A total of 63 sample points (130 hand pits) were distributed within a 500m radius of the AGCCE facility: 35 sample points were spread across a 100m grid to the south and south-east of the facility, 15 sample points were spread across a 150m grid to the south and south-west of the facility and 13 sample points were located in public open space within the residential areas. Two hand pits were dug at each sample point and up to 3 samples collected and analysed from each pit.

PFOA levels above the LOD (limit of detection) were discovered in 287 of the 291 samples with the concentrations ranging from 0.73 µg/kg to 144 µg/kg (average concentration 4.13 µg/kg). The results align with the aerial dispersion model showing the highest concentrations to the south-east of the AGCCE facility.

The conclusion of the human health risk assessment for residential properties with homegrown produce was that an unacceptable risk to human health could not be ruled out and that further works were warranted.

Further detail is available in the Phase 2 Grid Investigation Factual report [3]. The data obtained from Phase 2 has been included within the discussion of the results within Section 4 of this report.

3. PHASE 3 RESIDENTIAL PROPERTIES INVESTIGATION

3.1. FIELDWORKS

The Phase 3 Residential Property Investigation was undertaken between October and November 2025, supervised by WSP field engineers on a full-time basis. The area subject to soil sampling is shown in Figure 1 in Appendix A.

To ensure the integrity of the samples obtained, given extremely low method detection limits associated with PFAS analysis (e.g. µg/kg dry weight (DW) or as received (AR) for soils) and the many potential sources of PFAS for cross contamination, strict operating procedures were followed to minimise sample bias (positive or negative)¹. This included the use of PFAS-free material and equipment and personal protective equipment (PPE), where feasible, the use of laboratory supplied sample containers, and the implementation of comprehensive quality assurance / quality control (QA/QC) measures, such as, equipment blanks/rinsates and duplicate samples.

Specific method statements were devised and incorporated into the design of the investigation, copies of which are provided in Appendix D.

A summary of the PFAS specific quality assurance actions taken on-site is provided within Section 3.5.

3.2. COMPLETED SCOPE OF FIELDWORK

Preparatory activities included:

- Identification of proposed Phase 3 Grid sample points and high-level desk-based assessment.
- Desk-based review of sampling areas (including history, utilities and unexploded ordnance (UXO)).
- Preparation, submission and authorisation of health and safety documentation including liaison with the Principal Designer (Mott McDonald). Access to residential properties arranged by Wyre Council.

The following fieldwork activities were conducted between 9th October and 19th November:

- Inductions and mobilisation of initial hand pitting crew and service clearance contractor.
- Completion of service clearance, hand pitting and shallow soil sample collection at 71 properties, including:
 - 35 properties to the south-east (referenced as GR03)

¹ Positive bias is the overestimation of analyte concentration and can result from contamination of samples by field equipment, materials, and sampling procedures used during sample collection, storage, and transport. Negative bias is the underestimation of analyte concentration and can result from improper field sampling procedures, using materials to which the contaminant sorbs, or sample storage conditions that could result in analyte degradation prior to analysis. (NGWA, 2023)

- 31 properties within the wider residential area (referenced as GR04), and
- 5 poultry keeper properties (referenced as POUL).
- Collection of egg samples at 4 out of 5 poultry keeper properties (referenced as POUL)
- Completion of resident's questionnaire at 71 properties and poultry keeper questionnaire at 4 properties.

The following deviations / restrictions from the original planned scope of works are noted:

- Various sampling points were re-positioned onsite to account for site constraints including the potential presence of previously unidentified underground utilities.
- The number and depth of pits progressed was also dependent upon constraints during the works, including access, available areas of soft standing, utilities and above or below ground obstructions.
- Property access was dependent on third party access agreement. Not all properties approached granted access and therefore suitable alternatives were sought within the timeframe.

All soil sampling points were positioned in areas of landscaping within private gardens, typically within lawns or flower beds. Each proposed sampling point was marked and cleared (using a cable avoidance tools (CAT) and ground penetrating radar (GPR)) by a specialist surveyor (Lucion Survey). The sampling locations were then re-surveyed via GPS to account for any repositioning (coordinates and elevations X, Y, Z). A plan showing the distribution of properties sampled within the investigation area is presented as Figure 1 within Appendix A.

3.3. HEALTH AND SAFETY

WSP acted as Principal Contractor during the ground investigation and supervised all site activities on a full-time basis. A Construction Phase Plan (CPP) was prepared prior to commencement of the ground investigation and issued to the Principal Designer (Mott McDonald) acting on behalf of the Client (the EA), for approval.

- WSP, October 2025. Thornton Construction Phase Plan (ref: 70100310-CPP300) [7].

The CPP set out the arrangements made for securing health and safety during the construction period. The CPP detailed site rules, risk assessments and method statements of all subcontractors and WSP, and specific measures put in place to mitigate the identified health and safety risks.

The CPP is to be submitted to the EA for inclusion in the Health and Safety File kept by the Client. This factual ground investigation report is part of the Health and Safety File.

During the soil sampling works, a project Suitably Qualified Person (SQP)² attended site on 15 October 2025 to observe sampling activities.

3.4. SAMPLE IDENTIFICATION

For sample identification purposes, the sample ID nomenclature comprised:

- A prefix of 'GR03' for residential properties within the area of potential higher deposition to the south-east of the facility, 'GR04' for residential properties within the wider area to the south, west and north, or 'POUL' for properties where poultry are kept.
- A sample point ('SP') reference number that is property specific (300 series for properties within GR03, 400 series for properties within GR04 and 500 series for poultry keeper properties).
- A suffix of 'A' – 'G' to represent the individual hand pits progressed at each property. Where duplicate samples were collected, the additional suffixes of 'S1' and 'S2' were added to identify the parent and duplicate hand pits respectively, and 'A1' and 'A2' to identify the two separate samples from each pit at that depth interval (e.g. to represent Sample 1 Analysis 1, Sample 1 Analysis 2 etc).
- An associated depth interval of where the sample was taken from (e.g. 0.3 – 0.4).

The egg samples collected at the poultry sample points were named with the 'POUL-SP' prefix and then given a numerical 'EGG' suffix to identify each sample (e.g. EGG01).

The sample identification details are summarised in Appendix E. The locations of the sampling points are shown in Figure 1 in Appendix A.

3.5. SOIL SAMPLING

SAMPLE DEPTH

Hand dug pits were progressed by a specialist contractor to a depth of up to 0.6m bgl (subject to access agreements, utilities and obstructions). To ensure the shallow vertical soil profile was targeted whilst continuing to align with the exposure assumptions for different land uses, at each identified hand pit, three soil samples were collected between ground level and 0.6m bgl. Samples were obtained at discreet 0.1m depth ranges, as indicated within Appendix E.

LOGGING AND SAMPLING

The sampling technique comprised hand dug pits (using insulated hand tools) whilst adopting a strict methodology for the avoidance of cross contamination or introduction of PFAS during hole advancement or sample collection. The hand pits were all positioned within areas of soft landscaping within residential gardens with no requirement for mechanical excavation or coring of the ground surface.

Geotron UK Ltd. undertook the hand pitting works which were overseen by two WSP geo-environmental engineers on a full-time basis. A written record of the soil strata was logged in accordance with BS5930:2015 by the WSP engineers and hand dug inspection pits and associated arisings were photographed. Selected photographs are included on the exploratory hole logs, presented in Appendix F. Where specified by the sampling plan (Appendix E), duplicate samples were obtained from an adjacent hand pit.

Arisings were placed on high density polyethylene (HDPE) sheeting in accordance with laboratory advice, and in accordance with the earlier phases of works [2] [3]. Discrete disturbed soil samples were extracted from arisings using a handheld stainless-steel trowel, undertaken in accordance with

the methodology described in Appendix D. Arisings were subsequently used as backfill and compacted to restore the hand pit once the samples had been collected. Samples were collected in laboratory supplied sample containers (1kg tubs) and placed within the laboratory supplied cool bags. The samples were sent by courier to the laboratory (ALS Life Sciences Ltd (ALS)) either the same day or following day.

QUALITY ASSURANCE AND QUALITY CONTROL

Due to the low screening level concentrations and prevalence of PFAS in consumer products, as stated within Section 3.1, strict protocols were followed to minimise sample bias or cross contamination of samples and to ensure the integrity of the samples collected. This included the use of PFAS-free equipment, laboratory supplied sample containers, and personal protective equipment (PPE), and the implementation of comprehensive quality assurance / quality control (QA/QC) measures, including:

- Regular cleaning of the hand pitting and sampling equipment with a liquinox solution made with laboratory supplied PFAS-free deionised water. The hand pitting equipment was cleaned between every hand pit whilst the sampling tools were cleaned between every sample collected.
- Triple rinse of tools and equipment with laboratory supplied PFAS-free deionised water.
- The changing of disposable gloves for every sample collected.
- Samples were stored in sealed containers appropriate for laboratory analysis for the required suite.

During the investigation, QA/QC samples were collected in general accordance with that outlined within Table 3-1 and described below.

Table 3-1 – Quality Control Sampling Plan

QC Sample	Description	Typical Quantity
Equipment/ rinsate Blank	E.g. sample taken of the rinse water from the final rinse after decontamination of the field equipment. Used to assess whether the decontamination process has been adequately undertaken. Or, rinse water sample taken of polyethylene sampling equipment to assess the potential for PFAS cross contamination	At an approximate frequency of 1 in 10 soil samples collected
Analytical and sampling duplicates	Duplicate samples collected in accordance with BS 10175 as described below – all samples analysed at ALS laboratories.	Equivalent to 10% of the proposed sample targets
Analytical duplicates	Separate duplicate samples collected at random and analysed at different performing laboratories	In the order of 10% of soil samples collected
Analytical QA/QC performed by the laboratory (ALS)	Internal quality processes performed by the laboratory including an analytical quality control (AQC (Spiked Sample)) run with each batch of samples	All samples analysed

The equipment rinsate samples collected as part of the Track 2 Investigation are detailed in Appendix J. In summary, 109 rinsate samples were collected during sampling at selected sample locations (equating to ~10% of soil samples collected). Rinsate samples were collected associated with use of the following equipment used during the sampling process:

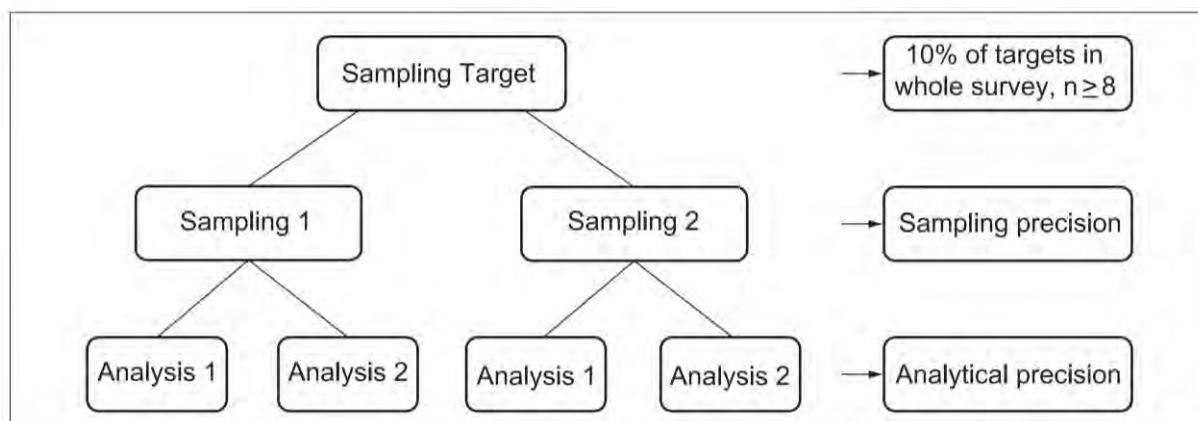
- the plastic sheeting used for the temporary storage of arisings during logging and sampling;
- plastic bags used to contain egg samples within egg boxes;
- cardboard egg boxes used during egg sample transportation;
- the driller's hand tools; and
- the sampling trowels.

The results of the QA/QC rinsate testing are presented in Section 4.4.

Analytical and Sampling Duplicates in accordance with BS 10175

For the assessment and control of sampling uncertainty, duplicate sample collection, in general accordance with BS 10175, was undertaken at 44 randomly selected locations as part of the detailed soil investigation (only completed at properties where a Track 2 investigation was progressed). Insert 3-1 shows the duplicate method sampling design from BS 10175. For each duplicate sampling target a separate hand pit was progressed alongside the target. As illustrated, to account for both sampling precision and analytical precision, the duplicate sampling resulted in four separate samples being collected in the field for each target location.

Insert 3-1 - Duplicate Method Sampling Design (after BS 10175)



The national grid coordinates for each proposed sampling point were given to the specialist surveyor (Lucion Survey), who marked and cleared each location using a cable avoidance tools (CAT) and ground penetrating radar (GPR). The sampling locations were then re-surveyed via GPS to account for any repositioning (coordinates and elevations X, Y, Z).

The results of the analytical and sampling duplicates are discussed within Section 4.4.

Analytical Duplicates – Differing performing laboratories

All 113 soil samples collected for analysis of PFOA isomer speciation at Merieux Nutriscience Italia had equivalent samples collected at the same sample point and depth that were sent to a different performing laboratory, ALS laboratories UK from which a comparison of results can be made.

The results of the analytical duplicates and comment on the observed variability between samples is discussed within Section 4.4.

Laboratory Analytical QA/QC (ALS)

In addition to the above, ALS Laboratories internal Quality Processes are presented on the laboratory reports within Appendix G. This includes the results of an analytical quality control (AQC (Spiked Sample)) run with each batch of samples. The bold figure detailed is the percentage recovery result for the AQC, whilst the subscript numbers are the percentage recovery lower control limit (LCL) and upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control. Where the AQC sample fails, the batch is cancelled, and samples are re-run.

Based on the AQC's data presented within laboratory reports, recovery of 5:3 FTCA, 6:2 FTAB, 7:3 FTCA in the quality control samples has been observed to be <50% of the target value. The results for these analytes are therefore indicative only. The remaining AQC's are within the acceptable ranges and therefore pass their QA/QC. The laboratory AQC compliance shows that the extraction/analysis process worked and won't have affected the levels of the contaminants in the actual samples.

LABORATORY CHEMICAL ANALYSIS – SOILS AND RINSATES

The soil samples were collected in fully labelled laboratory-supplied containers, relevant to the required suite of analysis; and transported in cooled containers under full chain of custody to a UKAS accredited laboratory (ALS Life Sciences Ltd).

Whilst, for the purpose of this investigation, PFOA was identified as the principal contaminant of concern, a wider suite of PFAS analysis was implemented which offered the lowest MDL/LOD available for PFOA (0.5µg/kg).

Soil analysis for PFAS in the present study was not accredited (which applies to the services currently available from all UK labs). However, certain analysis methods for waters (applicable to the equipment rinsates) are validated to ISO 17025. The environmental laboratory reports are presented in Appendix G.

From the hand pits an additional 113 samples were taken for PFOA isomer speciation testing to characterise branched / linear isomer ratios. These samples were dispatched in fully labelled containers (supplied by ALS) relevant for PFAS analysis; under full chain of custody procedures to Mérieux NutriSciences Italia. The samples were taken across the depth profile from the same pits and same depths as samples sent to the ALS Life Sciences Ltd laboratory. These equivalent samples, obtained from the same hand pit, at the same depth, represent additional analytical duplicates as discussed within Section 1.5.

A full summary of the sampling and laboratory analysis undertaken during the Track 2 investigation is presented in Table 3-2 below.

Table 3-2 – Summary of Environmental Laboratory Analysis Schedule

Laboratory	Chemical Analysis	Accredited Method – Method Reference	Analysis Method	Number of Samples Analysed	
				Soil	Equipment rinsates (QA/QC)
ALS Life Sciences Ltd	PFAS Broad Suite (soil)	No – TM440	Liquid chromatography coupled with a triple quadrupole mass spectrometer (LC-MS/MS)	1,126	-
	PFAS Broad Suite (water)	Yes - TM434	LC-MS/MS	-	109
	Soil Organic Matter	Yes – TM132	High temperature combustion (ELTRA method)	1,126*	-
	pH	Yes - TM133	Automated pH meter	1,126	-
Mérieux NutriSciences Italia	Linear PFOA	Yes - MP 2222 rev 0 2017	LC-MS/MS	113	-
	Branched PFOA	Yes - MP 2222 rev 0 2017	LC-MS/MS	113	-

Only 1,125 SOM results reported as the laboratory indicated 'No Determination Possible' on a single sample (POUL-SP510-F-0.30-0.40) with the comment 'unable to confirm result'.

It is noted where samples have been diluted by the laboratory for analysis, a variation in the reported limits of detection may be observed.

3.6. EGG SAMPLING

Duck and chicken eggs were supplied by four out of the five poultry keepers where soils were sampled. Due to the time of year, some poultry had reduced or stopped laying and therefore the number of eggs provided were dependent on their availability at the time of the investigation. Each egg 'sample' comprised of between 1 and 4 eggs (of the same poultry species) that were packaged securely in PFAS free egg cartons and sent to Eurofins Food Testing UK Limited for analysis as detailed within Table 3-3. Where the sample comprised multiple eggs, the sample was mixed at the receiving partner laboratory in Sweden prior to analysis.

Samples were analysed for the EFSA four compounds (PFOA, PFOS, PFNA and PFHxS), accredited to ISO 17025.

Table 3-3 - Egg Sample Summary

Sample Description	Poultry type	No. eggs per sample
POUL-SP504-EGG1	Chicken	4
POUL-SP504-EGG2	Chicken	4
POUL-SP504-EGG3	Chicken	4

Sample Description	Poultry type	No. eggs per sample
POUL-SP504-EGG4	Chicken	4
POUL-SP510-EGG1	Duck	1
POUL-SP510-EGG2	Duck	2
POUL-SP510-EGG3	Duck	2
POUL-SP512-EGG1	Chicken	4
POUL-SP512-EGG2	Chicken	4
POUL-SP512-EGG3	Chicken	4
POUL-SP512-EGG4	Chicken	4
POUL-SP513-EGG1	N/A	4
POUL-SP513-EGG2	Duck	4
POUL-SP513-EGG3	N/A	4
POUL-SP513-EGG4	N/A	4
POUL-SP513-EGG10	Chicken	2
POUL-SP513-EGG11	Duck	3
POUL-SP513-EGG12	Duck	2
POUL-SP513-EGG13	Duck	2

N/A – type uncertain due to labelling issues (duck or chicken)

3.7. QUESTIONNAIRES

RESIDENTS QUESTIONNAIRE

A resident's questionnaire was completed by each property owner/occupier of the 71 properties visited. The questionnaire comprised of 9 questions to provide a better understanding of garden use, works that have been undertaken and/or garden maintenance practices that are undertaken. It is noted that this was intended to provide a high-level indication of such practices based on current occupancy. Property ownership/occupancy varied between households and the responses to these questionnaires does not provide a complete history or detailed inventory of works undertaken or practices employed.

A summary of the responses is provided in Table 3-4. Full details of the responses are provided in Appendix H.

Table 3-4 - Summary of Responses to Resident's Questionnaire

Q1	Do you use / have you used weed suppressants?
Most occupiers did not use weed suppressants. One indicated use of cardboard, two indicated use of plastic, one indicated use of geotextile, two indicated use of herbicide and three indicated use of suppressants but did not detail what kind.	
Q2	Do you have / have you had any astro turf or faux grass?

	Six properties indicated some use of astro turf / faux grass within specific areas of the garden.
Q3	Have you undertaken any landscaping works?
	18 properties indicated some degree of landscaping works including turfing of the perimeter, raised beds or lawn, addition of planters, removal or addition of paving.
Q4	Have you imported or exported any topsoil?
	16 properties indicated some degree of soil import/export and largely associated with planters / flower beds or the import of turf.
Q5	Have you used / do you use any soil additives?
	10 properties indicated the use of soil additives, primarily comprising compost added to flower beds and the use of topsoil.
Q6	Have you used / do you use any chemical fertilisers / pesticides?
	6 properties indicated use of chemical fertilisers / pesticides including the use of 'weed and feed' on lawns.
Q7	How are plants watered?
	Most residents indicated no watering undertaken. 16 properties indicated the use of mains water for watering with one having a water butt.
Q8	Details of garden distribution?
	Garden distribution varied including lawn/grassed areas, flower beds, shrubberies, planters, paving, driveway, fixed structures including sheds and greenhouses, decking, play areas. All gardens visited had some degree of soft standing to enable sampling.
Q9	Do you grow fruit and/or vegetables for consumption?
	7 properties indicate that they grow fruit and/or vegetables for consumption.

POULTRY KEEPERS QUESTIONNAIRE

A questionnaire comprising 19 questions was completed by the four poultry keepers from which eggs were collected.

Table 3-5 - Summary of Poultry Keeper Questionnaire Responses

Q1-3	No. of Birds, Breed of hens, Age Range
	Properties kept varieties of chicken and ducks - between 2 and 20 birds – ranging in age between 6 months and 6 years
Q4	Years keeping poultry at address
	Poultry keeping at the current address was indicated to be between 4 years and over 100 years. One property did not respond to this question.
Q5	Location of birds
	Two of four properties kept their birds solely free range in the garden. Two properties combined the use of a coop/run.
Q6	Bedding material
	Bedding materials comprised wood shavings, straw and hay, where indicated.
Q7-8	What do the bird eat and how is feed provided
	Birds were indicated to eat layers pellets, mixed corn, plants, insects, fruit, bird seed, vegetables, worms. In addition, ducks were indicated to filter wet soil. Birds were fed by a combination of free range feeding, chicken feeders and metal bowls.
Q9-10	Source of drinking water and access to other water sources

	Water is generally mains supply or rainwater collection into bowls, feeders and ponds for ducks
Q11	Access to natural untreated soil
	Birds at all properties had access to natural soils
Q12-15	Weekly egg production and consumption
	Weekly egg production varied from <10 per week to >40 3 out of 4 properties indicated they gave eggs away, as well as bakery products in which eggs were used
Q16-19	Willing to provide eggs for PFAS testing, want to receive/discuss results, questions/concerns, additional info
	All parties were willing to have their eggs tested and were interested in the results. Some raised concern regarding implications of the investigation.

4. FINDINGS

4.1. OVERVIEW

The following section provides a summary of the ground conditions and general distribution of concentrations in sampled material within the Phase 3 investigation and combined Phase 2 and 3 data sets. Exploratory logs are included in Appendix F and laboratory reports are included within Appendix G.

[REDACTED]

4.2. ENCOUNTERED GROUND CONDITIONS

The recorded ground conditions and associated photographs are presented on the exploratory logs contained in Appendix F. [REDACTED]

[REDACTED] The sampling location plan is provided within Figure 1 in Appendix A.

In summary, given the residential garden land use, typical encountered ground conditions comprised the following:

- Topsoil Made Ground was predominantly described as a very soft to soft brown / dark brown / greyish brown gravelly, sandy, silty CLAY with rootlets. The gravel was generally described as subangular to subrounded fine to coarse of limestone, sandstone and mudstone. Anthropogenic gravel that included brick and concrete was often encountered. Occasionally the topsoil was described as gravelly, silty, clayey SAND. All other features of the soil were comparable to the cohesive strata descriptions. Gravel topsoil was occasionally encountered (see exploratory hole logs and property summaries for further detail). Topsoil was recorded to a depth of 0.6m bgl (maximum depth of pits); however, the maximum depth was most commonly between 0.2 – 0.3m bgl.
- Made Ground was predominantly cohesive. Generally described as soft (sometimes very soft or firm) light to dark (sometimes greyish or orangish) brown gravelly silty sandy CLAY. Gravel was subangular to rounded fine to coarse of limestone, sandstone and mudstone. Anthropogenic inclusions consisted of various materials including brick, clinker and concrete. Granular Made Ground was found less frequently and described as either gravel or sand. The gravel was generally described as various shades of brown very sandy clayey angular to subangular fine to coarse GRAVEL of limestone and mudstone. Frequent gravel sized fragments of a variety of anthropogenic materials including brick and concrete were present, with plastic fragments and occasional bitumen/ tarmacadam fragments. Some of the gravel seen was imported landscaping gravel. The sand strata are generally dark brown, orange, greyish brown or pale brown gravelly, clayey (occasionally silty) fine to coarse SAND with rootlets. Gravel was generally angular to subangular, fine to coarse limestone, sandstone, flint and quartz. Frequent gravel sized fragments of anthropogenic material including brick, clinker and concrete were observed. Made Ground was recorded to depths of 0.6m bgl (maximum depth of the hand pits).
- Beneath the Made Ground, Natural or Reworked Natural deposits (likely Tidal Flat Deposits) were recorded. Generally, these strata are described as very soft, soft or firm light greyish brown sometimes mottled grey, orange or yellowish brown gravelly or sandy or silty CLAY. Gravel was

predominantly subangular to subrounded of limestone, sandstone and mudstone. Silt and sand are also recorded as Natural / Reworked Natural with similar colour descriptions to the clay and with a mix of secondary constituents of sand, clay, silt and gravel. The Natural / Reworked Natural strata were recorded at a range of depths from 0.07m bgl as the shallowest to 0.6m bgl (maximum depth pits progressed to).

Anthropogenic inclusions were encountered within the Made Ground. These inclusions consisted of brick, concrete, ceramics, terracotta, clinker, wood or timber, bitumen/tarmacadam, glass, metal and various forms of plastic. Further details can be found in [REDACTED] the exploratory hole logs (Appendix F).

Limited volumes of groundwater were observed, often as small seepages or ingress of water encountered generally between 0.5 and 0.6m bgl (maximum depth of hand pits) within the Made Ground and Natural / Reworked Natural. Given the time of the sampling works during the autumn/winter months, saturated ground and surface water ponding was present in various gardens.

4.3. SOIL LABORATORY ANALYSIS RESULTS – PHASES 2 AND 3 COMBINED DATASETS (RESIDENTIAL PROPERTIES)

The soil laboratory reports from the Phase 3 (Track 1 and 2) investigation are provided in Appendix G. Phase 2 laboratory reports are provided in the Factual Report from the Phase 2 (Track 1) Investigation [3].

In total 1,126 soil samples collected from residential gardens were analysed as part of the Phase 3 Grid Investigation and 208 soil samples from residential gardens were analysed as part of the Phase 2 investigation. Twenty two properties from Phase 2 were revisited for further sampling as part of Phase 3, for validation purposes and to increase sample density.

Sampling was undertaken from discrete depth intervals between ground level and 0.6m bgl. During Phase 3, soil samples were sent to two separate performing laboratories for different analyses as detailed within Table 3-2. The majority of samples were sent to ALS and subject to a suite of PFAS testing (PFAS Broad Suite), pH and SOM. A subset of samples were sent to Mérieux NutriSciences Italia to be tested for PFOA branched and linear isomers. The PFOA branched and linear isomer analysis was not undertaken as part of Phase 2. All soil results are based on dry weight.

PFOA IN SOILS

A summary of detected PFOA concentrations is provided in Table 4-1 below. PFOA was encountered above the LOD within 1,116 of the total 1,126 samples tested during Phase 3 (99%) and 204 of the 208 samples tested during Phase 2 (98%). Detected concentrations (above LOD) from the combined dataset ranged between 0.60µg/kg and 181µg/kg with an average concentration of 5.91µg/kg.

The average PFOA concentrations for each property are shown within Figure 2 in Appendix A.

Table 4-1 – Summary of Detected PFOA – Phases 2 and 3

Investigation Area	Number of samples*	Number of samples with PFOA concentrations above LOD	PFOA concentration (µg/kg)			
			Maximum	Minimum (>LOD)	Mean^	Median^
GR01 (south and south-east of facility to 500m radius)	149	147	144	0.732	4.58	2.25
GR02 (south-west and west of facility to 500m radius)	59	57	10.1	0.74	3.62	3.21
GR03 (south-east of facility to 700m radius)	738	730	181	0.60	6.04	3.58
GR04 (south, south-west, west and north-west of facility to 1km radius)	286	284	30.1	0.67	4.97	3.96
POUL (select poultry keepers within 1km radius of facility)	102	102	119	1.03	11.2	4.22
Combined dataset	1,334	1,320	181	0.60	5.89	3.56

*Dataset includes duplicate sample results

^Concentrations reported below the LOD (<LOD) have been included in the calculation as equal to their LOD

PFOA with Depth

The average detected PFOA concentrations from discrete depth intervals are shown in Table 4-2 below. In accordance with previous findings from Phases 1 and 2, average PFOA concentrations appear to increase with depth across the dataset, with the biggest increase being seen between 0.4 and 0.6m depth.

Table 4-2 – Average Detected PFOA Concentration by Depth

Investigation	Average PFOA concentration (µg/kg) *^		
	0.0 – 0.2m bgl	0.2 – 0.4m bgl	0.4 – 0.6m bgl
Phase 3 dataset	5.17 (383 Samples)	5.30 (377 samples)	8.15 (366 samples)
Combined Phase 2 and 3 residential property datasets	4.75 (461 samples)	5.07 (444 samples)	7.98 (429 samples)

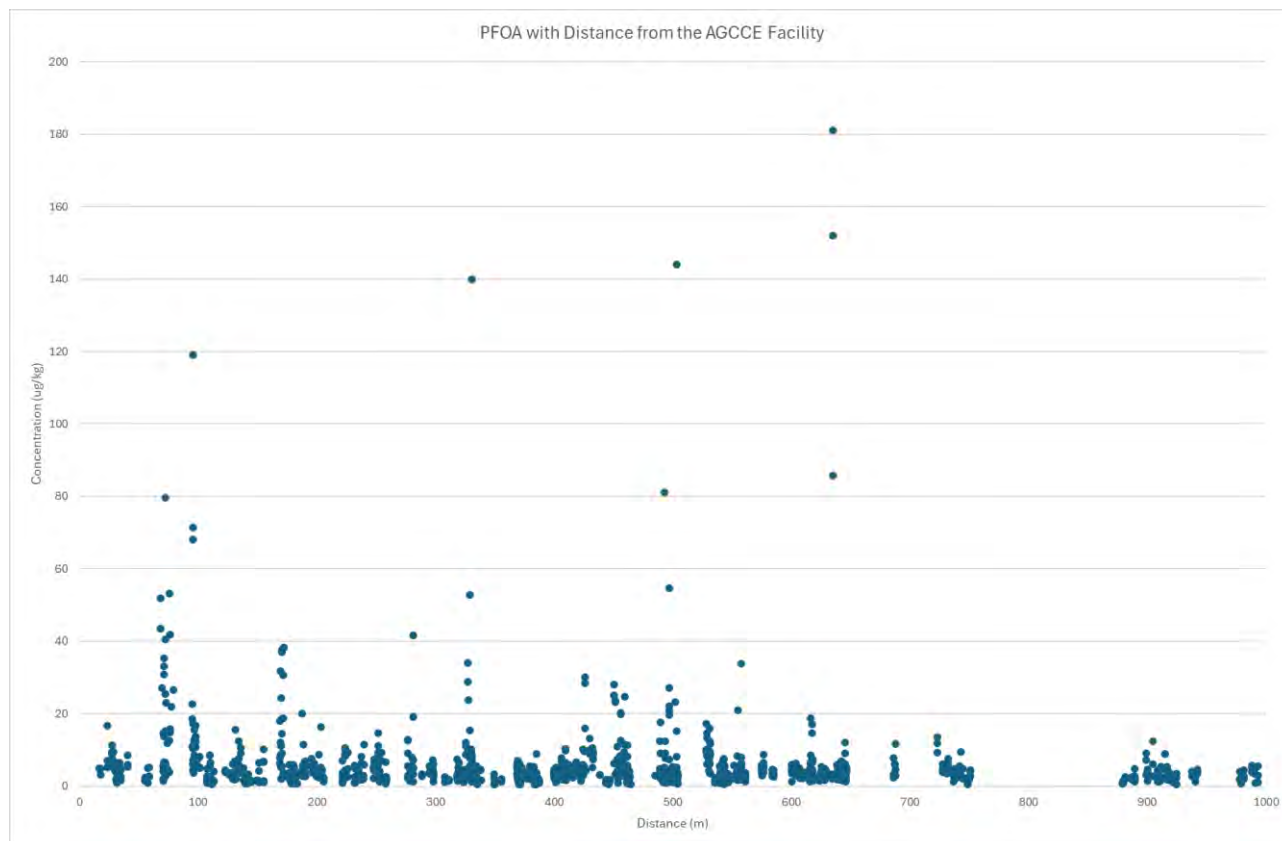
*Dataset includes duplicate sample results

^Concentrations reported below the LOD (<LOD) have been included in the calculation as equal to their LOD

PFOA with Distance

A plot of PFOA concentration with distance from the facility from the combined Phase 2 and 3 datasets for residential properties is provided as Insert 4-1. The plot indicates no clear correlation between concentration and distance which may be attributed to the radial spread of sample points around the facility (between 88° and 327° rotation) and the aerial nature of PFOA deposition.

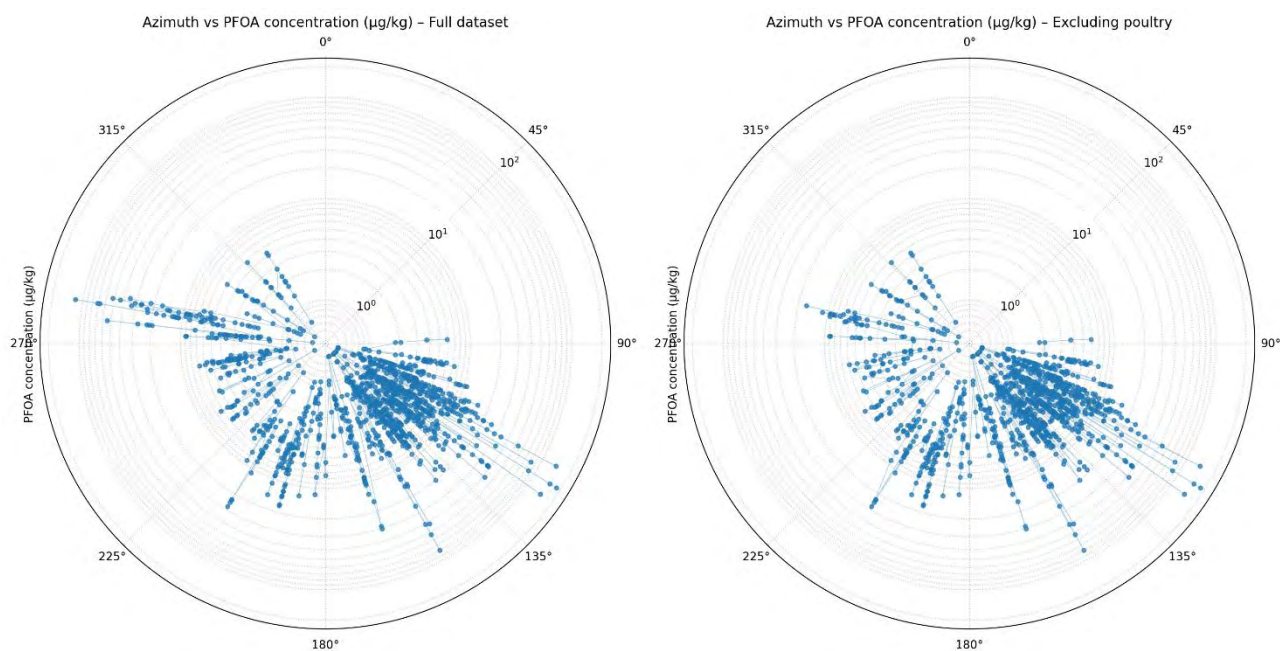
Insert 4-1 - PFOA with Distance From the AGCCE facility - Phase 2 and 3 Combined Soils Datasets



PFOA with Orientation

PFOA concentration in soils with orientation of the facility (in degrees) has been plotted as a radar scatter plot in Insert 4-2. Whilst there is a greater population of samples in the south-easterly orientation (c. 100-150°), the highest concentrations are c. 120° (south-east) and 280° (west-north-west) rotation.

Insert 4-2 - Radar Scatter Plots - PFOA Concentration in S($\mu\text{g/kg}$) with Orientation ($^{\circ}$) of AGCCE facility – Combined Phase 2 and 3 Residential Soils Datasets (including (LHS) and Excluding (RHS) Poultry Keeper Property data)



PFOA concentrations in $\mu\text{g/kg}$ (dry weight)

Generated using AI

PFOA ISOMER SPECIATION

PFOA was detected above the laboratory LOD within all 113 samples (100%) sent to Merieux Nutrisciences Italia during the Phase 3 investigation, with the total PFOA concentrations in samples ranging between $0.60\mu\text{g/kg}$ and $27.32\mu\text{g/kg}$. The PFOA linear component was identified to dominate the isomer speciation ratio within samples, with the percentage of linear PFOA ranging between 95.5% and 99.6% (4.5% to 0.4% branched PFOA).

The full dataset is provided within Appendix J.

OTHER PFAS IN SOILS

As part of the wider PFAS Broad Suite, 50 PFAS were analysed including PFOA. Whilst PFOA is the contaminant of concern under investigation, Table 4-3 provides a summary of the concentrations of wider PFAS observed across the soil sample population above the laboratory LOD.

The combined dataset indicates the greatest prevalence and highest PFAS concentrations relate to PFOA with a detection frequency of 99% and an average concentration of $5.89\mu\text{g/kg}$. Of the sum of PFAS measured across all samples, PFOA made up 88.5% of the total (analyte sum/PFAS total sum*100). Other PFAS including a range of Perfluoroalkylated carboxylic acids (PFCAs), Perfluoroalkylated sulfonic acids (PFSAs) and fluorotelomers were detected more sporadically. Of these, the following were observed at a detection frequency of >5% PFOS, PFPA and PFDA (in order of frequency from highest to lowest). Total PFOS made up 4.4 % of the total, consistent with previous findings from Phases 1 and 2.

The predominance of PFOA within soils is consistent with the findings of wider shallow soil investigations within the vicinity of the AGCCE facility [2] [3]. Table 4-3 shows the relative contribution of each PFAS to the total PFAS concentration reported above the LOD.

The soil laboratory reports are provided in Appendix G, whilst tables detailing the compiled PFAS soil analysis is presented within Appendix J.

Table 4-3 –Summary of Detected PFAS Compounds in Soils

Detected PFAS Compound	Limit of Detection (LOD) (µg/kg)	Reported Range in Detected Result (µg/kg)	No. of Samples >LOD (Detection Frequency DF)	Average (µg/kg)
Perfluoroalkylated carboxylic acids (PFCAs) in order of increasing chain length				
PFBA	0.5	0.585 - 1.92	46 (3.44%)	0.96
PFPA	0.5	0.607 - 4.58	168 (12.59%)	1.21
PFHxA	0.5	0.738 - 3.6	4 (0.29%)	2.01
PFHpA	0.5	0.666 - 0.733	3 (0.22%)	0.69
PFOA	0.5-2.5	0.603 - 181	1320 (98.95%)	5.94
PFNA	0.5	0.636 - 1.52	18 (1.34%)	0.87
PFDA	0.5	0.616 - 4.56	83 (6.22%)	1.12
PFUnA	0.5	0.649 - 6.56	28 (2.09%)	1.82
PFDoA	0.6	0.789 - 3.68	16 (1.19%)	1.63
PFTTrDA	0.6	0.729 - 3.66	17 (1.27%)	1.62
PFTeA	0.5	0.795 - 2.53	10 (0.74%)	1.32
PFOSA	0.5	0.823 - 0.836	2 (0.14%)	0.82
PFHxDA	0.5	0.689 - 1.7	9 (0.67%)	1.07
PFODA	0.5	0.687 - 1.33	5 (0.37%)	0.9
Perfluoroalkylated sulfonic acids (PFSAAs) in order of increasing chain length				
PFBS	0.5	0.702 - 1.12	3 (0.22%)	0.84
Total PFOS	0.6	0.724 - 16.9	252 (18.89%)	1.55
Fluorotelomers				
10:2 FTS	0.8	1.05 - 1.05	1 (0.07%)	1.05
6:2 FTAB	10	15 - 34.3	3 (0.22%)	24.06
6:2 FTS	0.5	0.661 - 2.51	15 (1.12%)	1.36

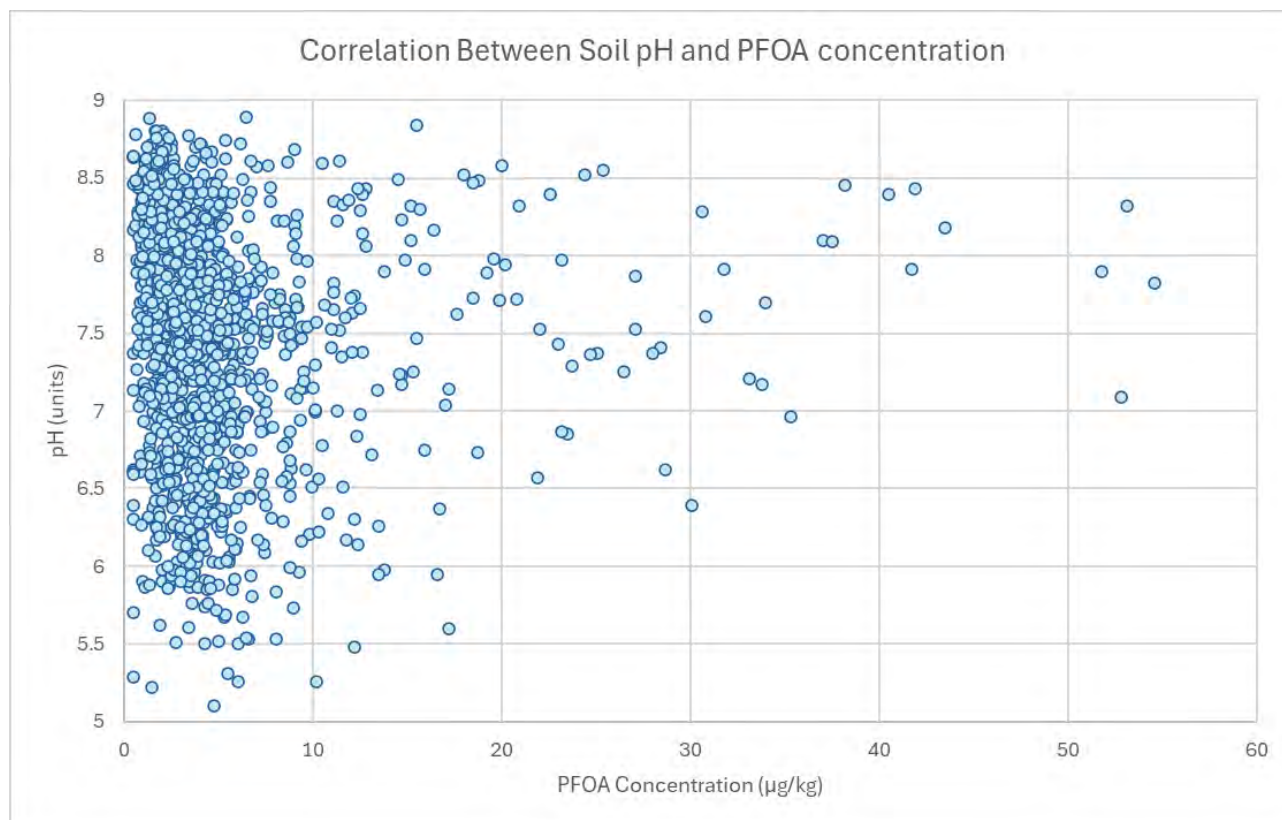
Detected PFAS Compound	Limit of Detection (LOD) (µg/kg)	Reported Range in Detected Result (µg/kg)	No. of Samples >LOD (Detection Frequency DF)	Average (µg/kg)
8:2 FTS	0.9	1.34 - 2.27	4 (0.29%)	1.93
Other				
FBSA	0.5	0.712 - 0.712	1 (0.07%)	0.71
HFPO-TA	4.4	6.32 - 11.9	3 (0.22%)	8.2

PH

The combined datasets indicate pH ranged between 4.35 and 10 (acidic to alkaline conditions) with an average of 7.43 (neutral). It is acknowledged that there may be typical gardening practices that have been used to manage soil pH to optimise plant growth, which could be influencing pH locally.

Insert 4-3 presents the correlation of pH data against PFOA concentrations which indicates no clear correlation.

Insert 4-3 - Correlation Between pH and PFOA in Soil - Phase 2 and 3 Combined Datasets



SOM

Soil organic matter varied considerably within soil samples tested, with reported concentrations from the combined datasets of between <0.35% to 47.1% (average 4.41%). The highest reported SOM content was typically taken from topsoil / near surface samples. As indicated in Table 4-4 the

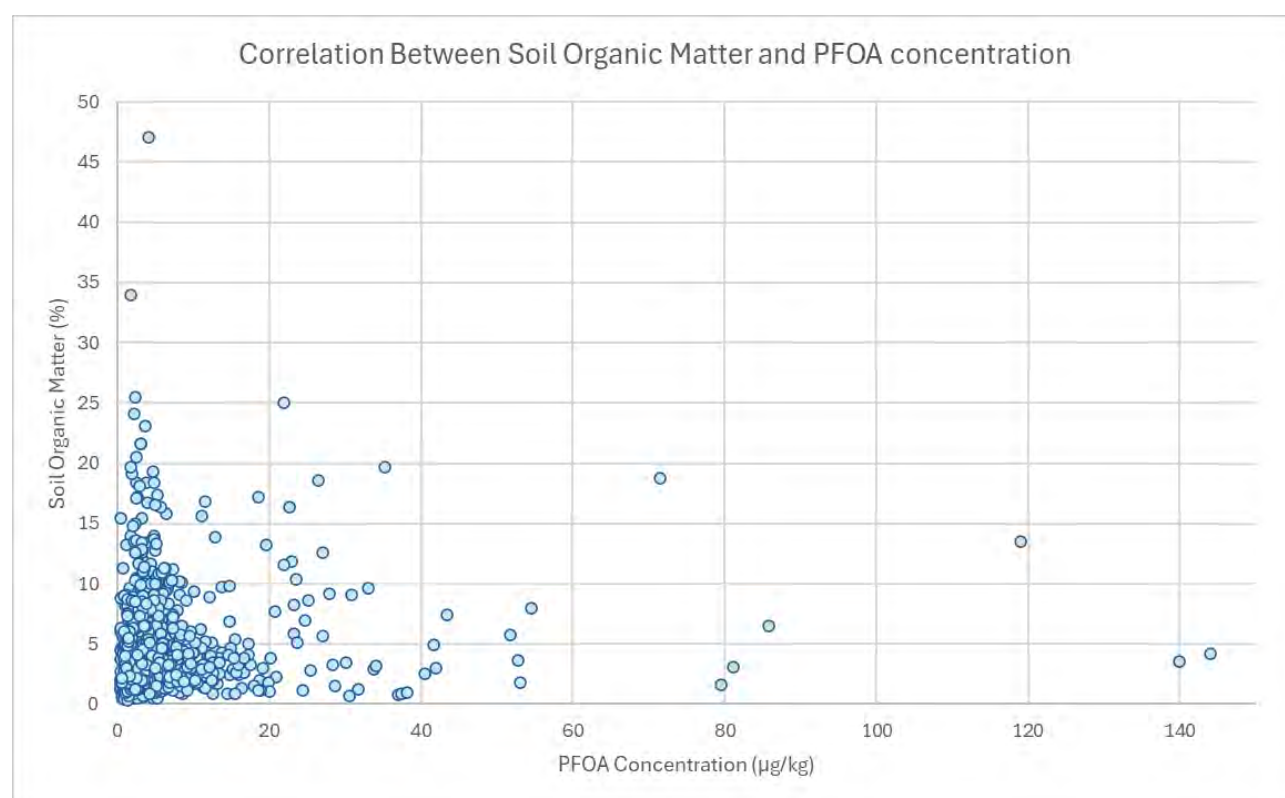
average SOM decreased with depth, with higher SOM reported in shallow intervals which is possibly attributed to the soil root zone and presence of vegetative matter. Insert 4-4 shows the correlation between soil SOM and PFOA concentration. Whilst no clear correlation is observed it is noted that average PFOA is observed to increase with depth and average SOM is observed to decrease with depth which aligns with a slight inverse correlation observed.

Table 4-4 - Average SOM (%) in Soil with Depth - Phase 2 and 3 Combined Datasets

Depth (m)	0-0.2	0.2-0.4	0.4-0.6
No. of samples*	461	443	429
Average SOM (%)	6.40	4.07	2.60

Only 1,125 SOM results reported during Phase 3 (out of 1,126 scheduled) as the laboratory indicated 'No Determination Possible' on a single sample (POUL-SP510-F-0.30-0.40) with the comment 'unable to confirm result' – see laboratory report SDG 251016-65.

Insert 4-4 - Correlation Between SOM (%) and PFOA in Soil - Phase 2 and 3 Combined Datasets



4.4. QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

EQUIPMENT RINSATES

The test schedules from the laboratory were checked for consistency with the sampling plan and proposed analytical schedule on the day of receipt, and any errors were rectified with the laboratory within the holding time, where applicable. During the Phase 3 soil sampling, 109 rinsate samples of the field equipment and materials were taken from selected sample locations (as detailed within Appendix J) and submitted for PFAS analysis to assess whether the decontamination process has been adequately undertaken.



A QA/QC pass is indicated where concentrations in equipment rinsates are below the laboratory LOD. Upon review of the analysis, concentrations of PFAS analytes were below the LOD, with the exception of low-level concentrations reported in 13 samples as outlined in Table 4-5.

Table 4-5 – PFAS Detections (>LOD) in Rinsates - Phase 3 Dataset

Sample ID	Sample depth	6:2 FTAB µg/l	6:2 FTS µg/l	HFPO-TA µg/l	PFBS µg/l	PFHpA µg/l	PFHxA µg/l	PFHxS µg/l	PFOA µg/l	PFPA µg/l	Total PFOS µg/l
GR03-SP303-E	0.10-0.00		0.00163								
GR03-SP316-B	0.50-0.00								0.00503		
GR03-SP320-G	0.30-0.20										0.00169
GR03-SP328-A	0.20-0.10						0.00311		0.000921	0.00329	
GR03-SP328-E	0.20-0.10					0.00162	0.00825		0.00226	0.00442	
GR04-SP411-B	0.10-0.00	0.015						0.0025	0.000849		0.00832
GR04-SP421-C	0.50-0.00					0.00144	0.00555		0.00191	0.00416	
GR04-SP426-A	0.20-0.10						0.00309			0.00357	
GR04-SP437-A	0.50-0.40								0.000716		
PACK-3	0.00-0.00				0.00182				0.000934		0.00201
POUL-SP511-C-S1	0.20-0.10			0.0083							
POUL-SP512-A	0.50-0.40										0.00223
POUL-SP513-E	0.60-0.00		0.00113						0.00122		0.00321

Where data is absent, concentrations were reported <LOD

Trace concentrations of various PFAS have been identified in the rinsate samples listed in Table 4-5. It should be noted that the LOD for the rinsate tests is at least two orders of magnitude lower than that of the soil tests. Therefore, for some cases PFAS is not recorded in the soil but there is trace amounts found in the rinsate (e.g. GR03-SP303-E, GR03-SP320-G and POUL-SP511-C-S1). For rinsate samples where multiple PFAS compounds show an exceedance the soil samples generally only show exceedances of PFOA (with the exception of GR04-SP421-C PFPA found in 0-0.1 soil sample, POUL-SP513-E PFOS exceedance found in 0.1-0.2 soil sample only). GR03-SP316-B soil samples show exceedances of PFAS that are not recorded within the rinsate concentrations. The trace levels of PFAS recorded within the rinsate samples is not considered to be significant in the context of the dataset and overall, the QA/QC processes were deemed effective.

The results of the rinsate samples are contained within the laboratory reports presented in Appendix G.

LABORATORY QUALITY ASSURANCE

Based on the AQC data presented within laboratory reports, recovery of 6:2 FTAB in the quality control samples has observed to be <50% of the target value. The result is therefore indicative only. The remaining AQC are within the acceptable ranges and therefore pass their QA/QC. The laboratory AQC compliance shows that the extraction/analysis process worked and won't have affected the levels of the contaminants in the actual samples.

4.5. DUPLICATE SOIL TESTING

ANALYTICAL AND SAMPLING DUPLICATES IN ACCORDANCE WITH BS 10175

To support with the assessment of the analytical data and to assess the sampling uncertainty, the results of the duplicate soil testing for PFOA (the main contaminant of concern), analysed at ALS laboratories, is presented within Appendix J with the relative percentage difference (RPD) calculated. A total of 44 duplicate pits were progressed during the Phase 3 investigation (duplicate pits were only progressed as part of a Track 2 (detailed) investigation of a property).

The evaluation of RPD acceptability considered site-specific factors, such as the non-homogeneous soil matrix encountered during sampling (i.e. Made Ground) and low concentrations associated with the determinands, resulting in some elevated RPDs.

The duplicate analysis shows a variability in the dataset between duplicate samples. Such variations are not uncommon when investigating an aerial deposition source and when considering the heterogeneity of Made Ground soils.

ANALYTICAL DUPLICATES – DIFFERING PERFORMING LABORATORIES

Similarly, the results for PFOA from samples sent to Merieux Nutriscience Italia for PFOA isomer speciation were compared against equivalent samples from the same sample point and depth that were sent to ALS laboratories (who report the PFOA linear component only) with the relative percentage difference (RPD) calculated and presented in Appendix J.

A similar level of variability was observed between the results from the different performing laboratories.

4.6. EGG RESULTS

Samples of duck and chicken eggs collected from four poultry keepers located within a 1km radius of the AGCCE facility, where soils were also tested, are presented in Table 4-6. [REDACTED]

Samples were analysed for the EFSA four compounds (PFOA, PFOS, PFNA and PFHxS). Detections (>LOD) of all four compounds were observed in all samples. PFOA and PFOS were the most prevalent substances with PFOA comprising 44% of the total and PFOS 51%. The Sum of PFAS (4) ranged between 3.4 and 46 µg/kg.

Table 4-6 - Results of Phase 3 Egg Analysis - PFAS

Sample Description	PFHxS (Perfluorohexane sulfonic acid) (µg/kg wet weight)	PFNA (Perfluorononano ic acid) (µg/kg wet weight)	PFOA (Perfluorooctanoic acid) (µg/kg wet weight)	PFOS (Perfluorooctane sulfonic acid) (µg/kg wet weight)	Sum of PFAS4 (EFSA) excl. LOQ (µg/kg wet weight)	Poultry type	No eggs per sample
POUL-SP504-EGG1	0.028	0.36	2.7	5.2	8.3	Chicken	4
POUL-SP504-EGG2	0.033	0.38	2.9	6.1	9.4	Chicken	4
POUL-SP504-EGG3	0.024	0.31	2	5.5	7.8	Chicken	4
POUL-SP504-EGG4	0.019	0.26	1.8	4.5	6.6	Chicken	4
POUL-SP510-EGG1	0.031	0.94	15	5.1	21	Duck	1
POUL-SP510-EGG2	0.27	2	23	21	46	Duck	2
POUL-SP510-EGG3	0.056	1.7	11	12	25	Duck	2
POUL-SP512-EGG1	0.019	0.38	3.8	2.6	6.8	Chicken	4
POUL-SP512-EGG2	0.02	0.29	3.3	2	5.6	Chicken	4
POUL-SP512-EGG3	0.017	0.35	4.3	2	6.7	Chicken	4
POUL-SP512-EGG4	0.018	0.32	3.2	1.8	5.3	Chicken	4
POUL-SP513-EGG1	0.018	0.1	0.59	2.7	3.4	N/A	4
POUL-SP513-EGG2	0.037	0.16	1.5	2.7	4.4	Duck	4
POUL-SP513-EGG3	0.03	0.14	1.4	2.8	4.4	N/A	4

Sample Description	PFHxS (Perfluorohexane sulfonic acid) (µg/kg wet weight)	PFNA (Perfluorononano ic acid) (µg/kg wet weight)	PFOA (Perfluorooctanoi c acid) (µg/kg wet weight)	PFOS (Perfluorooctane sulfonic acid) (µg/kg wet weight)	Sum of PFAS4 (EFSA) excl. LOQ (µg/kg wet weight)	Poultry type	No eggs per sample
POUL-SP513-EGG4	0.036	0.18	1.6	4.2	6	N/A	4
POUL-SP513-EGG10	0.073	0.34	1.5	8.4	10	Chicken	2
POUL-SP513-EGG11	0.03	0.2	1.7	3.7	5.6	Duck	3
POUL-SP513-EGG12	0.035	0.29	2.9	4.6	7.8	Duck	2
POUL-SP513-EGG13	0.033	0.19	2.8	4.4	7.4	Duck	2

N/A – type uncertain due to labelling issues (duck or chicken)

5. SUMMARY

A Phase 3 (Track 1 and 2) soils investigation was undertaken between October and November 2025 within areas of residential land use up to 1km radius of the AGCCE facility, located within Thornton-Cleveleys. Works were undertaken under the CDM, 2015 Regulations [3] where WSP was Principal Contractor and Designer.

These additional works provide a continuation to the Phase 1 and 2 soils investigations undertaken by WSP between September 2024 and March 2025 [2] [3] which suggested a potential contaminant linkage between legacy aerial deposition of PFOA in shallow soils within the surrounding area and residents with gardens who grow or have the potential to grow home grown produce for consumption. Aerial deposition of PFOA is considered to result from historical airborne emissions associated with the AGCCE facility and former site operators.

In summary, as part of the Phase 3 investigation of residential properties, soil laboratory analysis was performed by ALS laboratories on 1,126 samples of soils collected comprising a suite of 50 PFAS compounds (including PFOA), SOM and pH. Concurrently an additional 113 soil samples were sent to Merieux Nutrisciences Italia to perform PFOA isomer speciation. Sampling was undertaken from discrete depth intervals between ground level and 0.6m bgl and duplicate sampling, in accordance with BS 10175, was undertaken at 44 sample points (where Track 2 investigation was completed). Due to the extremely low method detection limits associated with PFAS analysis and the many potential sources of PFAS contamination, field personnel followed specific PFAS sampling QA/QC protocols and standard operating procedures to minimise sample bias and ensure the quality of analysis results.

The combined Phase 2 and 3 results indicate that the greatest prevalence, and highest PFAS soil concentrations relate to PFOA at a 98% detection frequency. PFOA has been detected above the laboratory LOD within 1,320 out of 1,344 soil samples collected at concentrations between 0.60µg/kg and 181µg/kg (dry weight). Of the sum of PFAS measured across all samples analysed by ALS laboratories, PFOA made up 88.5% of the total. A range of other PFAS compounds were detected (including PFOS, PFPA and PFDA at detection frequencies of >5%); although, detections were more sporadic and generally reported at much lower concentrations. PFOA speciation indicates a dominance of the linear form (typically >95%).

Egg (chicken and/or duck) samples were collected from four out of five poultry keeper properties visited (poultry were not actively laying at one property). The four PFAS (EFSA four compounds) analysed were detected above the laboratory LOD in all 19 egg samples ranging from 3.4 to 46 µg/kg wet weight. PFOA (44%) and PFOS (51%) were the most prevalent substances within the eggs collected.

Follow up reporting will provide a full interpretation of the dataset in the context of Part 2A. This will include an assessment of the available lines of evidence to determine, on a per property basis and with consideration of all relevant uncertainties, whether the land meets the statutory definition of contaminated land, or whether further assessment is required before a conclusion can be reached.

6. REFERENCES

1. WSP, 17 February 2025. Desk Study: AGC Chemicals Europe Ltd Facility, Thornton-Cleveleys (ref: 70100310-12157(5)).
2. WSP, 12 December 2024. Site at Thornton-Cleveleys, Factual Report from Preliminary Phase of Offsite Soils Investigation (ref: 70100310/12232(2)).
3. WSP, July 2025. Residential Grid-Based Investigation, Thornton-Cleveleys (ref: 70100310/12258)
4. HSE, 2015. Construction (Design and Management) Regulations.
5. EA, 2020. Land Contamination Risk Management (LCRM).
6. Part 2A of the Environmental Protection Act, 1990.
7. WSP, October 2025. Thornton Construction Phase Plan (ref: 70100310-CPP(300))
8. BS 5930:2015 +A1:2020 Code of Practice for Ground Investigation.
9. BS 10175:2011+A2:2017, Investigation of Potentially Contaminated Sites, Code of Practice. (relevant at the time of the investigation although recently updated in 2026)
10. Part 2A of the Environmental Protection Act, 1990.
11. Defra, 2012. Contaminated Land Statutory Guidance.
12. EA Air Quality Modelling & Assessment Unit (AQMAU), 2023. AGC Chemicals PFOA Dispersion. Air dispersion and deposition modelling study. AQMAU-C2478-RP02.
13. Groundsure Report, 12 August 2024 (ref: GS-WIF-Q5F-TX1-C81_Central Areas).

7. GLOSSARY AND ABBREVIATIONS

The following terms and abbreviations have been used throughout the enclosed statement. All may be considered as common terms used on an everyday basis by Contaminated Land professionals, their definitions are presented to assist the reader and avoid ambiguity.

Above Ordnance Datum (AOD).

Air dispersion Modelling is the use of mathematical formulations to simulate atmospheric processes and predict the dispersion of pollutants.

Analytical Quality Control (AQC) refers to the procedures adopted by the performing laboratory to ensure that analytical measurements are of adequate accuracy for their intended purpose.

Asbestos containing material (ACMs). Products that have asbestos in them. Asbestos is a mineral that has been used for its fireproofing and insulation properties. Examples include construction and insulation materials, such as fireproofing, pipes, boilers, roofing, plaster, wallboard, and cement; friction products, such as brakes and clutches; heat-resistant fabrics, packaging, gaskets, and coatings.

Below ground level (BGL).

Conceptual site model (CSM). A representation of the characteristics of the site in diagrammatic or written form that shows the possible Pollutant linkages between Contaminants, Pathways and Receptors.

Contaminant. A substance that is in, on or under the land and that has the potential to cause harm or to cause pollution to the water environment.

Contaminant linkage. The relationship between a contaminant, pathway and receptor, which is identified by developing the conceptual site model ('CSM'). See also source-pathway-receptor linkage.

Contaminant of concern (CoC). Contaminants that pose an unacceptable risk to human health and the environment, as identified in the risk assessments.

Contaminated Land. Contaminated Land: defined in section 78A(2) of the Environmental Protection Act [1] as: 'any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that - '(a) significant harm is being caused or there is a significant possibility of such harm being caused, or; '(b) pollution of controlled waters is being, or is likely to be, caused.' OR with respect to radioactive contamination defined in section 78A(2)(as modified) as 'any land which appears to the local authority in whose area it is situated to be in such a condition, by reasons of substances in, on or under the ground, that: (a) harm is being caused, or (b) there is a significant possibility of such harm being caused.'

Construction Phase Plan (CPP) is a document that sets out the health and safety management arrangements for a project. It is a key document that details the health and safety risks associated with the construction phase of the project and the control measures that will be implemented to minimise risks or where possible, eliminate them. The Construction Phase Plan is an explicit requirement under CDM 2015.

The Construction (Design and Management) Regulations, 2015 (CDM 2015). A set of rules that aim to improve health and safety in the construction industry by managing risks from start to finish.

Harm. This means adverse impacts on the health of living organisms or other interference with the ecological systems of which they form a part and, in the case of man, includes harm to property. (Defined in section 78A(4) of the Environmental Protection Act 1990)

Hazard. A property or situation that in particular circumstances could lead to harm or pollution.

Natural drift, or Superficial deposits (formerly known as 'drift' by British Geological Survey) are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 2.6 million years from the present. They rest on older deposits or rocks referred to as bedrock.

LOD or Limit of Detection. The lower limit achievable detection as reported by the smallest amount (concentration) that can be detected with reasonable certainty using a specific analytical procedure.

Part 2A: Part 2A of the Environmental Protection Act 1990 [1].

Pathway. A route or means by which a receptor could be, or is exposed to, or affected by a Contaminant.

Per- and polyfluoroalkyl substances (PFAS). A group of synthetic organofluorine chemical compounds that have multiple fluorine atoms attached to an alkyl chain.

- Perfluorooctanesulfonic acid (PFOS)
- Perfluorooctanoic acid (PFOA)
- Perfluorosulfonic acids (PFSAs)
- Perfluoroalkyl carboxylic acids (PFCAs)
- Perfluoropentanoic acid (PFPA / PFPeA)
- perfluorohexane sulfonate (PFHxS)
- Perfluorohexanoic acid (PFHxA)
- Perfluoroheptanoic acid (PFHpA)
- Perfluoroheptyl sulphonate (PFHpS)
- 5:3 Fluorotelomer carboxylic acid (5:3 FTCA)
- Fluorotelomers (FTS)
- 6:2 fluorotelomer sulfonamidoalkyl betaine (6:2 FTAB)
- Perfluoroalkyl acids (PFAAs)

Plausible Contaminant Linkage. A contaminant linkage that may plausibly be significant but requires further quantification or investigation to confirm or refute in the context of Part 2A.

Quality Assurance / Quality Control (QA/QC)

Receptor. In general terms, something that could be adversely affected by contamination (e.g., people, an ecological system, property or a water body).

Risk. A combination of the probability, or frequency of occurrence of a defined hazard and the magnitude of the consequences of the occurrence.

Risk Assessment. The formal process of identifying, assessing and evaluating the health and environmental risks that may be associated with a hazard.

Site Investigation (SI). The collection and analysis of soil, surface water, groundwater, soil gas and other media as a means of further understanding the condition of the site and to inform the risk assessment. This investigation may be undertaken in a single stage, or a number of successive stages.

Site of Special Scientific Interest (SSSI).

Soil organic matter (SOM). The organic matter component of soil, consisting of plant and animal detritus at various stages of decomposition, cells and tissues of soil microbes, and substances that soil microbes synthesize.

Source-Pathway-Receptor linkage. The relationship between a Contaminant, Pathway and Receptor, which is identified by developing the CSM. See also Pollutant linkage.

Significant Possibility of Significant Harm (SPOSH) (a formal term within Part 2A Legislation). The following health effects should always be considered to constitute significant harm to human health: death; life threatening diseases (e.g., cancers); other diseases likely to have serious impacts on health; serious injury; birth defects; and impairment of reproductive functions. Other health effects may be considered by the local authority to constitute significant harm. For example, a wide range of conditions may or may not constitute significant harm (alone or in combination) including physical injury; gastrointestinal disturbances; respiratory tract effects; cardio-vascular effects; central nervous system effects; skin ailments; effects on organs such as the liver or kidneys; or a wide range of other health impacts. In deciding whether or not a particular form of harm is significant harm, the local authority should consider the seriousness of the harm in question: including the impact on the health, and quality of life, of any person suffering the harm; and the scale of the harm.

Unacceptable risk: means a risk of such a nature that it would give grounds for land to be considered Contaminated Land under Part 2A.

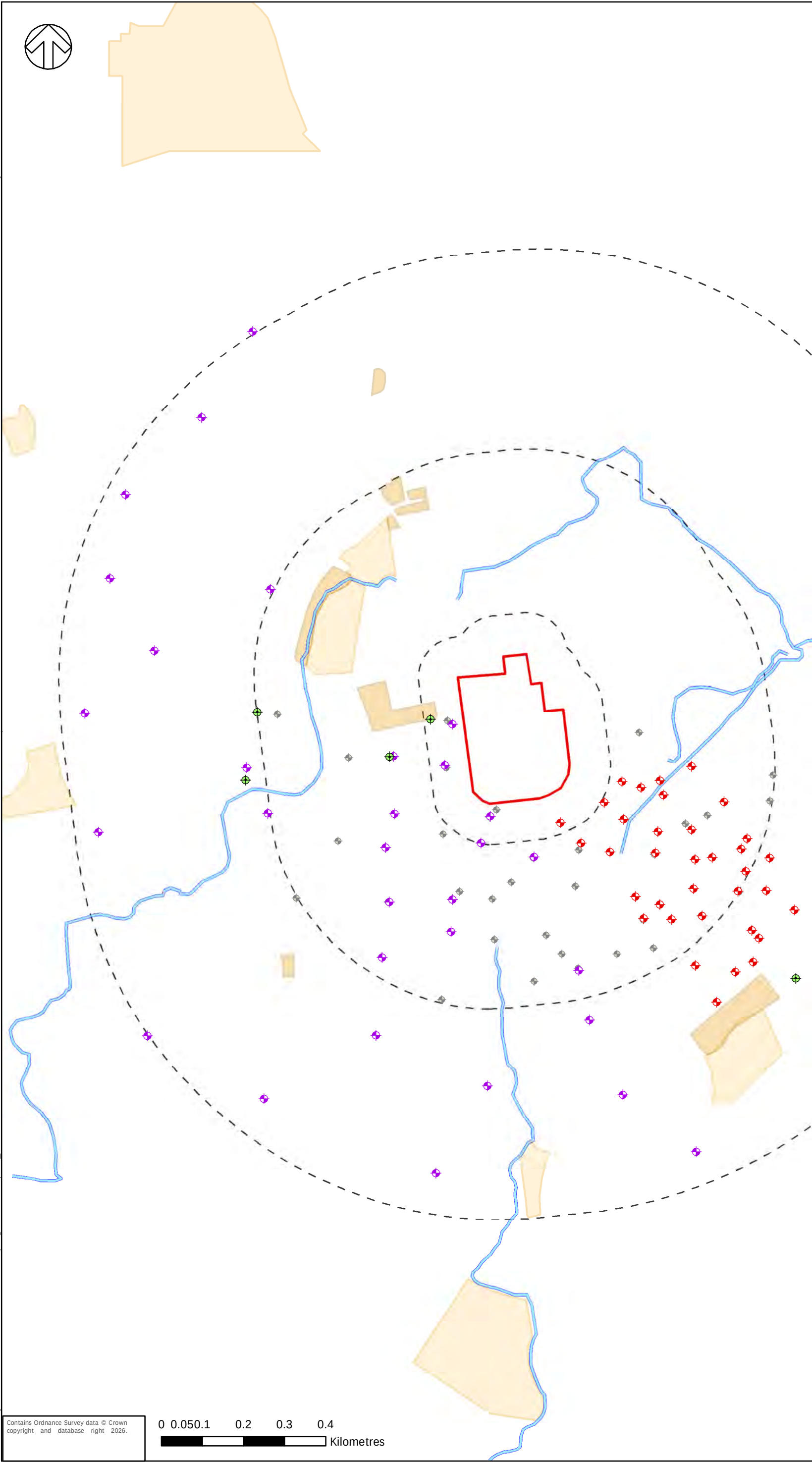
Uncertainty. A lack of knowledge about specific factors in a risk or exposure assessment, including parameter uncertainty, model uncertainty and scenario uncertainty. Parameter uncertainty refers to the uncertainty in the model parameter values, which can be due to uncertainties in the data available. Model uncertainty is uncertainty due to imperfections and idealizations made in the physical model formulation. Scenario uncertainty is uncertainty in the actual conceptual model being assumed for example in the actual exposure duration and frequency of a receptor on a site.

Unexploded Ordnance (UXO). A term for any sort of military ammunition or explosive device that failed to function as intended and still pose a risk of detonation.

Appendix A

FIGURES





Key

Residential Property Sample Points

- Phase 3 GR03 - higher risk (S/SE) - 300 series
- Phase 3 GR04 - lower risk (S/SW/W/NW) - 400 series
- Phase 3 POUL - Poultry Keepers - 500 series
- Phase 2 GR01 & GR02 - 200 series

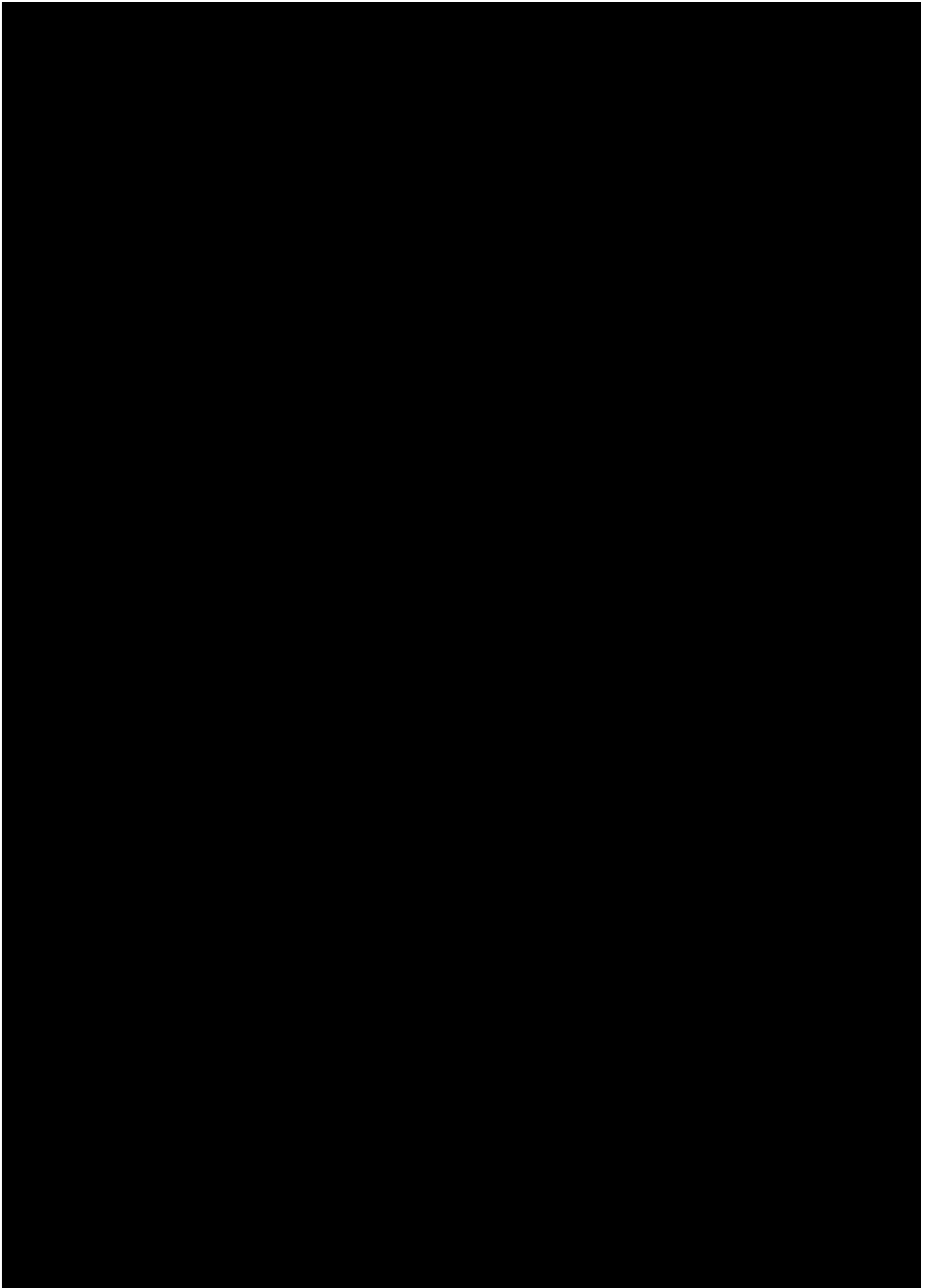
- Surface Water Network
- Wyre Council Owned Land
- Lancashire Council Owned Land
- 1km facility buffer
- 500m facility buffer
- 100m facility buffer
- AGCCE Permit Boundary

TITLE:

ENVIRONMENT AGENCY
LAND AT THORNTON-CLEVELEYS

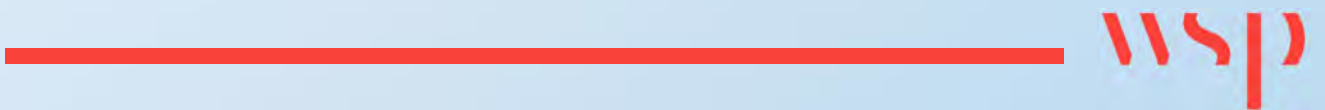
FIGURE No:

FIGURE 1
Phase 3 Sampling Locations



Appendix B

NOTES AND LIMITATIONS



REPORT LIMITATIONS - GROUND AND WATER

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

- 24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
- 25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

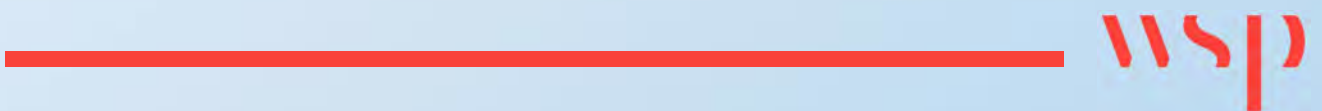
- 26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

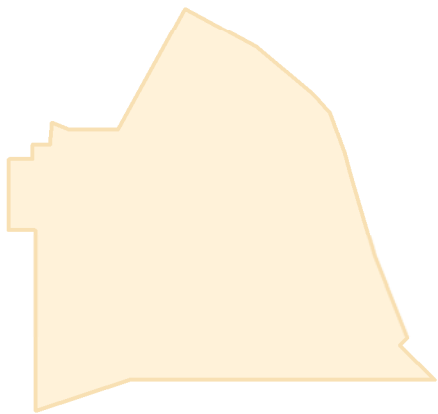
MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

- 27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
- 28. The data is presented and will be compared with assessment criteria.

Appendix C

LAND PARCEL DESK REVIEW



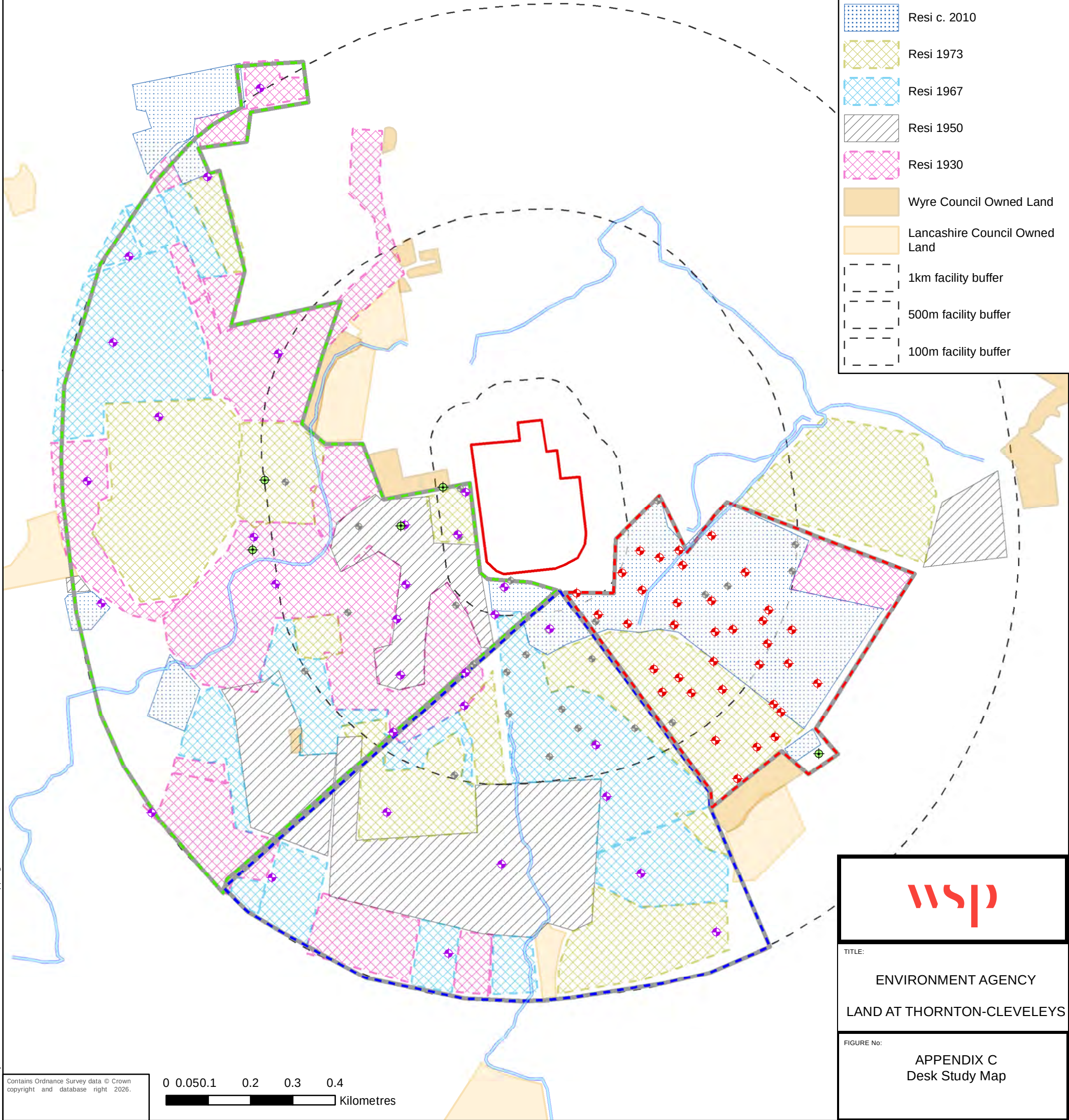


Key

Residential Property Sample Points

- Phase 3 GR03 - higher risk (S/SE) - 300 series
- Phase 3 GR04 - lower risk (S/SW/W/NW) - 400 series
- Phase 3 POUL - Poultry Keepers - 500 series
- Phase 2 GR01 & GR02 - 200 series

- Surface Water Network
- Area 3 - Higher Deposition Layer
- Area 2 - Lower Deposition Layer
- Area 1 - Low Deposition Layer
- Resi c. 2010
- Resi 1973
- Resi 1967
- Resi 1950
- Resi 1930
- Wyre Council Owned Land
- Lancashire Council Owned Land
- 1km facility buffer
- 500m facility buffer
- 100m facility buffer



TITLE:
ENVIRONMENT AGENCY
LAND AT THORNTON-CLEVELEYS

FIGURE No:
APPENDIX C
Desk Study Map

THORNTON PHASE 3 – AREA 1 (LOWER DEPOSITION)

ASPECT	DETAIL
Geology	British Geological Survey (BGS) mapping indicates that Made Ground to be present within the north of the study area associated with the wider area corresponding to the legacy ICI Hillhouse chemical works. The regional geology indicates that the study area is located on superficial deposits of quaternary aged Tidal Flats Deposits (TFD) across the majority of the study area with patches of Devensian aged Till in the northern and eastern portions. The TFD is described as unconsolidated sediment consisting of mainly mud and/or sand, while the Till is described as unsorted and unstratified drift, generally over consolidated and comprising a mixture of clay, sand, gravel and boulders. The underlying solid geology is the Kirkham Mudstone (Part of the Mercia Mudstone Group) listed as a Secondary B aquifer and underlain by the Sherwood Sandstone Group.
Land use	Limited development is visible in the earliest 1848 historical mapping, scattered farm properties and associated dams evident across the study area. In 1890 mapping an increase in residential dwellings is notable along Woodland Avenue, along with the Marsh Mill (corn) near the intersection of Fleetwood Road and schools located at the corner of Church and Marsh Roads. Increases in residential development are ongoing from 1910 until 1973 mapping where residential dwellings dominate the study area. Commercial developments are generally located along Fleetwood Road beginning to appear in 1910 mapping, with commercial/industrial buildings (e.g. smithy, schools, clinic, post office and police station) positioned at the intersections of Church Road and Woodland Avenue. Further south a sewage pumping station associated with the Thornton U.D.C was located at the junction of Fleetwood and Victoria East Roads in 1910 mapping, subsequently becoming commercial/industrial buildings (e.g. surgery and garage). King George playing fields is indicated across a large open space to the north of Victoria East Road and south of the old Marsh Mill in 1951 mapping. Subsequently this area was developed in addition to the playing fields into a nursery, allotments, bowling greens and tennis courts in later years. Fleetwood Town Football Club Training Ground is indicated adjacent to the east of the northern portion of the study area in Burn Naze. Previously this large parcel of land remained relatively undeveloped since the earliest 1948 historical mapping and was associated with Poolfoot Farm, until the northern portion was indicated as playing fields in 1967 mapping and the Fleetwood Town training facilities constructed in 2016.

Potential PFAS source in vicinity

Flood Risk

- Flooding from rivers and seas is generally indicated to be low to very low across the site, however, some sections along the Royles Brook that runs through the study area are classified as high risk.
- The Study area is situated within Flood Zone 2 (1 in 1000-year chance) and Flood Zone 3 (1 in 100-year chance).
- The highest surface water flood risk is present along the Royles Brook affecting the immediate adjacent land at the greatest risk of 1 in 30 years, greater than 1.0 meter.

Land Use

Historical industrial land use identified within the study area has included electrical infrastructure (e.g. substations), filling stations, unspecified tanks (2), refuse heaps, pipes, garages, brick field, corn mill, nursery, police station, brick field, unspecified works and pits. In the immediate surroundings (250m) of the study area to the north, west and south, historical land uses have included chemical works (AGC Chemicals Europe (AGCCE) Limited), plastics manufacturing (Victrex Manufacturing Ltd), nurseries, electrical substations, unspecified tanks, other unspecified works (Cabinet Works) and pipe infrastructure.

Current forms of industrial land use within the study area are limited to vehicle repairs and servicing, sign painting, electrical substations, sewage pumping stations, construction services, pumping station, petrol station, upholstery and gas fitting suppliers. In the immediate surroundings (250m) of the study area licensed industrial activities include the Hillhouse Generation Ltd (combustion plant) and AGCCE Limited (glass fibre, plastic and chemical manufacturing) located directly to the east and Red Marsh Industrial Estate to the north which includes a metal recycling centre, powder and coating works, vehicle repairs.

Waste

- One historical landfill is mapped under BGS records in the northern portion of the study area, adjacent to Fairclough Road listed under the address of Martin Mere, Blackpool. The waste type is unknown and is listed as no risk to the underlying aquifer. No further current or historical landfills were indicated within the study area; however, two historical landfills were identified within the immediate surroundings (250m) of the northern extents of the study area. These included one BGS mapped landfill located approximately 100m north of the study boundary, to the north of Bourne Road, with the waste type not listed. The second is mapped under Environment Agency/National Resources Wales records approximately 150m south-east of the study boundary south of Butts Road, listed as accepting household waste. Numerous historical landfills were identified outside the immediate surroundings, located approximately 500m and 800m to the north and 900m to the south east of the study boundary.
- Historical waste sites include scarp yards located in the Red Marsh Estate, a waste processing facility and thermal treatment plant associated with the former AGCCE Limited chemical works facility.
- Three licensed waste sites are located to the east of the study boundary and include Fylde Skip Hire (commercial and industrial waste), Hillhouse Recycling (physical treatment) and Nook Garage (metal recycling).
- Waste exemptions reported within the study area included two instances of sorting and de-naturing controlled drugs for disposal associated with medical clinics.

THORNTON PHASE 3 - AREA 2 (LOWER DEPOSITION)

ASPECT	DETAIL
Geology	British Geological Survey (BGS) mapping indicates that Made Ground is not present within the study area. The regional geology indicates that the study area is generally located on superficial deposits of quaternary aged Tidal Flats Deposits (TFD) with the lower eastern corner located on Devensian aged Till. The TFD is described as unconsolidated sediment consisting of mainly mud and/or sand, while the Till is described as unsorted and unstratified drift, generally over consolidated and comprising a mixture of clay, sand, gravel and boulders. The underlying solid geology is the Kirkham Mudstone (Part of the Mercia Mudstone Group) listed as a Secondary B aquifer and underlain by the Sherwood Sandstone Group.
Land use	Limited development is visible in the earliest 1848 historical mapping, scattered farm properties, a school and a chapel are evident along Victoria East Road, in addition to the London, Midlands & Scottish Railway running approximately north to south through the centre of the study area. Increases in residential development are ongoing from 1910 until 1973 mapping where residential dwellings dominate the study area. Commercial/industrial developments were generally located along Victoria East Road and the London, Midlands and Scottish Railway between 1891 and 1930. This included a smithy, nursery, the Thornton-Cleveleys' railway station and a goods stations located along Lawson Road. Further commercial/industrial developments were observed beginning in 1930 mapping at the corner of Victoria East and Fleetwood Roads including a depot and sewage pumping station, with a building listed under Kia-Ora located further south along Fleetwood Road. An ambulance station is also later present at this corner in 1967 mapping.
Potential PFAS source in vicinity	<u>Flood Risk</u> ■ Flooding from rivers and seas is generally listed as low to very low, however, sections along the Railway Line associated with Hillylaid Pool that are classified as high risk. ■ The Study area is situated within Flood Zone 2 (1 in 1000-year chance) and Flood Zone 3 (1 in 100-year chance). ■ The highest surface water flood risk is present along Lawsons and Briar Road affecting the immediate adjacent land at the greatest risk of 1 in 30 years, greater than 1.0 meter. <u>Land Use</u> The study area has historically supported industrial land uses including electrical infrastructure (e.g. substations and pylons), nurseries, a garage, an ambulance station and unspecified tanks (2). In the immediate surroundings (250m) of the study area to the north, historical land uses have included chemical works (AGCCE Limited) and plastics manufacturing (Vitrex Manufacturing Ltd). Recent forms of industrial land use within the study area are limited to electrical equipment and servicing, electrical infrastructure (e.g. substations), gas infrastructure and construction services. In the immediate surroundings (250m) of the study area licensed industrial activities include the Hillhouse Generation Ltd (combustion plant) and AGCCE Limited (glass fibre, plastic and chemical manufacturing) located directly to the north and Red Marsh Industrial Estate to the north which includes a metal recycling centre, powder and coating works, vehicle repairs. <u>Waste</u> ■ No current or historical landfills were indicated within the study area; however, a historical landfill (household waste) is located approximately 20 m south of the study boundary. ■ Historical waste sites include scarp yards located in the Red Marsh Estate, a waste processing facility and thermal treatment plant associated with AGCCE Limited to the north. ■ Waste exemptions reported within the study area included one instance of sorting and de-naturing controlled drugs for disposal associated with a pharmacy.



THORNTON PHASE 3 - AREA 3 (HIGHER DEPOSITION)

ASPECT	DETAIL
Geology	British Geological Survey (BGS) mapping indicates that Made Ground is not present within the study area. The regional geology indicates that the study area is located on superficial deposits of quaternary aged Tidal Flats Deposits (TFD) across the western portion and Devensian aged Till located in the eastern portion of the study area. The TFD is described as unconsolidated sediment consisting of mainly mud and/or sand, while the Till is described as unsorted and unstratified drift, generally over consolidated and comprising a mixture of clay, sand, gravel and boulders. The underlying solid geology is the Kirkham Mudstone (Part of the Mercia Mudstone Group) listed as a Secondary B aquifer and underlain by the Sherwood Sandstone Group.
Land use	Limited development is visible in the earliest 1848 historical mapping, scattered farm properties and dams, with the first residential developments appearing in 1930 historical mapping (e.g. Stanah Gardens). A furniture manufacturer labelled 'billiard table works' is visible in the centre of the study area north of Hillylaid Road along Stanah Road, from 1930 until 1951 mapping. Increases in residential development are visible in 1981-1985 mapping, with development encroaching the western portion of the study area up to Hillylaid Road. Further residential development encompasses the remaining study area in 2010 mapping.
Potential PFAS source in vicinity	<u>Flood Risk</u> ■ Flooding from rivers and seas is generally listed as low to very low, however, sections along Hillylaid Pool that are classified as high risk. ■ The Study area is situated within Flood Zone 2 (1 in 1000-year chance) and Flood Zone 3 (1 in 100-year chance). ■ The highest surface water flood risk is present along Stanah Road affecting the immediate adjacent land at the greatest risk of 1 in 30 years, greater than 1.0 meter. <u>Land Use</u> Limited historical industrial land use has operated within the study area, the features identified were limited to a billiard table works, electrical infrastructure (e.g. substations) and an unspecified tank. In the immediate surroundings (250m) of the study area to the north, historical land uses have included chemical works (AGCCE limited) and plastics manufacturing (Vitrex Manufacturing Ltd). Recent forms of industrial land use within the study area are limited to electrical infrastructure (e.g. substations, pylons), aviation engineers, unspecified works and moorings. In the immediate surroundings (250m) of the study area is the Hillhouse International Business Park to the north, including chemical processing facilities. Hillhouse Generation Ltd (combustion plant) and AGCCE Limited (glass fibre, plastic and chemical manufacturing) are located directly to the north-west. <u>Waste</u> ■ No current or historical landfills were indicated within the study area; however, a historical landfill (inert waste) is located approximately 115 m north-east of the study boundary. ■ Historical waste sites include scarp yards located in the Red Marsh Estate, a waste processing facility and thermal treatment plant associated with AGCCE Limited to the north-west. Also, approximately 450 m to the north a historical recycling facility is located, associated with AGCCE Limited. ■ Waste exemptions reported within the study area included one instance of sorting and de-naturing controlled drugs for disposal associated with a pharmacy.

Appendix D

STANDARD OPERATING
PROCEDURE



METHOD STATEMENT – Collection of Eggs

Project Name:	Land at Thornton-Cleveleys	Project Number:	70100310
This document is to be read in conjunction with	• T480 – Site Risk Assessment for the works. • Construction Phase Plan. • Site Documents Pack (including contractor Risk Assessments and Method Statements (if applicable), COSHH assessments, proposed exploratory hole plan and exploratory hole and sampling schedule). • Permit(s) to Dig		
Purpose	The purpose of the Method Statement is to describe the procedures that should be followed in the collection of eggs for per- and polyfluoroalkyl (PFAS) analysis. This Method Statement includes the following: • Sample collection procedures • Sample container and packaging considerations • Sample shipping requirements • Field equipment and personnel decontamination procedures		
Equipment:	• PPE and powder-free nitrile gloves • Tablet (or other method for taking logs and notes including stationery)/ weather writer* clipboard or somewhere to store drawings and paperwork. • Pens* / pencils. • PFAS free packaging for shipment. • Camera (separate to phone or tablet if necessary). • PFAS free deionised water for rinsing equipment.		
Responsibilities:	The lead engineer/site manager and all site personnel have the shared responsibility to oversee and ensure that egg sampling for PFAS analysis is undertaken in accordance with the methodology set out in this SOP. The lead engineer/site manager should ensure all site personnel understand and comply with this SOP.		
PFAS specific requirements	<i>*PFAS SPECIFIC CONSIDERATIONS: Items within the method statement marked with an asterix (*) indicates where consideration should be given to the potential for the influence of positive and negative sample bias¹ relating to PFAS. Note, research indicates that the most likely pathway for sample bias is through direct contact between sampling equipment and the sample. Examples are provided below.</i> • Equipment: - o Weather writers, waterproof paper and other equipment comprised of waterproof materials should only be used in inclement weather. Such items should be kept separate from sampling equipment and gloves changed between use of equipment and interaction with the samples. - o Use of waterproof pens including permanent markers and dry wipe markers should be avoided. - o Sample containers should be supplied by the laboratory and specifically for PFAS analysis (Only use high-density polyethylene (HDPE) or polypropylene containers with unlined plastic caps). - o Packaging for shipment to be PFAS free • PPE: Consideration in the use and selection of PPE should also be given to the potential for the introduction of PFAS into the sampling process e.g. - o Waterproof fabrics can contain PFAS and should only be worn in inclement weather. If worn, all precautions should be taken to avoid contact between the		

¹ Positive bias is the overestimation of analyte concentration and can result from contamination of samples by field equipment, materials, and sampling procedures used during sample collection, storage, and transport. Negative bias is the underestimation of analyte concentration and can result from improper field sampling procedures, using materials to which the contaminant sorbs, or sample storage conditions that could result in analyte degradation prior to analysis. (NGWA, 2023)

METHOD STATEMENT – Collection of Eggs

	sample and the waterproof fabric. E.g. Sample container should not be stored or transported in coat pockets. Recommended material for field clothing and PPE may include waterproof clothing that contains polyurethane, polyvinyl chloride, wax-coated fabric, rubber, or neoprene. The use of waterproof clothing during sample collection should be documented in the site diary with the refined sampling protocols to be adopted. - o Disposable gloves to be changed frequently. Hands should be washed with PFAS-free soap and new, clean disposable gloves should be donned prior to the collection of each sample. - o Application of sunscreen or insect repellents to be undertaken outside of the working area and hands thoroughly washed with PFAS free soap prior to re-entry. Use should be documented in the site diary with the refined sampling protocols to be adopted. • Food and cosmetic products: General consideration to be given to the potential for introduction of PFAS into the sampling process e.g. - o Food products and packaging can contain PFAS. Food should be consumed outside of the working area and packaging disposed of appropriately. Hands to be washed thoroughly with PFAS free soap after consumption or handling of food or food packaging. - o Fabric detergents and cosmetics can contain PFAS. Contact between skin or clothing and the sample should be avoided. - o Disposable gloves to be changed frequently. • Disposable powder-free nitrile gloves must be worn at all times and a new pair of nitrile gloves are to be worn prior to the following activities at each sample location: - o Contact with laboratory-supplied sample containers or PFAS-free water containers. - o Sample collection. - o Contact with packaging. - o After the handling of any non-dedicated sampling equipment or contact with non-decontaminated surfaces.
Detailed Methodology of works to be carried out: <u>Prior to Mobilising to hand pit locations.</u>	• All personnel should wear PPE* as stated in the site-specific instructions/Risk Assessment. • COSHH assessments for all materials used on site should be available. • All staff are to be briefed as to their responsibilities and aware of the safety measures in place during the works.
Egg Sampling Procedures <u>Sample Collection</u>	Individual eggs are to be collected from the poultry nesting area by the poultry keeper in order to prevent site personnel from entering into close quarters with the birds and so eggs could be collected over a longer period of time than a single visit from site personnel. Clean powder-free nitrile gloves to be worn when handling eggs. The eggs collected are to be stored in such a way as to maintain distinction between eggs from different species of bird (e.g. hen or duck eggs need to be distinguishable). When soil sampling works are in progress in the garden birds should be kept locked away where possible, if not possible they should be kept away from the digging and sampling areas.
Egg Sampling Procedures	Upon receipt of the eggs from the poultry keeper the site personnel will wrap each individual egg in a PFAS free bag (compostable waste bags can be used) and then the eggs are to be placed in PFAS free cardboard egg boxes. Between 1 and 4 eggs of the same species are

METHOD STATEMENT – Collection of Eggs

<u>Sample Container and Packaging Constraints</u>	required to make up 1 sample. The egg box should then be appropriately labelled with sampling nomenclature and the species of egg within each sample recorded. Clean powder-free nitrile gloves to be worn when handling eggs. The PFAS free bag and egg boxes should be rinsate tested in order to determine if any traces PFAS are detectable.						
<u>Egg Sampling Procedures Sample Shipping</u>	Once individual samples are secured in egg boxes and labelled the egg boxes should be placed in a cardboard box for shipping surrounded by shredded cardboard packaging to reduce the likelihood of breakage during shipping. The shipping box should be well sealed and labelled as fragile. The eggs should then be sent to an appropriate testing laboratory (e.g Eurofins Food Testing UK Limited) and confirmation of receipt should be provided. Where multiple eggs (of the same species) make up a sample, these will be combined on receipt and prior to testing by the performing laboratory.						
<u>Egg Sampling Procedures Field equipment and personnel decontamination</u>	To reduce the risk of site personnel contracting a disease from handling eggs or working within an area that the birds clean powder-free nitrile gloves should be worn when handling eggs, soil or anything the birds may have come into contact with. Hands and arms should be thoroughly washed to mitigate the transmission of germs. If the coop area appears dry, dampen the soil (with PFAS free water) prior to entering and breaking ground to reduce the likelihood of dust generation. If required to enter a confined or poorly ventilated poultry enclosure consider wearing a PFF3 dust mask. To reduce the risk of transmission of avian diseases between properties soil should be removed from boots and equipment prior to leaving the property, equipment and boots should be sprayed with Virkon S disinfectant and left to dry before it is rinsed off with PFAS free deionised water. Virkon S should be managed with care; stored in a sealed container in a cool dry place, gloves should be worn when mixing a solution, when spraying boots keep the spray bottle close to the boots and ground and personnel should be located up wind. A property should not be visited if they report a suspicion of any contagious avian diseases being present within their livestock.						
Required Personnel Protective Equipment:	 Safety Boots	 Hard Hats	 Safety Gloves	 Hearing Protection	 Eye Protection	 Respiratory Protection	Other: 1. Hi-visibility waistcoat/ jacket/ coat* 2. PFAS free disposable Gloves* 3. Weather dependent PPE e.g. waterproofs* or sunscreen* (use to be documented in site diary with the refined sampling protocols to be adopted)
Applicable:	Yes Conform to 20345:2011 and protective mid-sole	No	No	No	No	No	
Prepared by: (signature)				Print name: Katie Gamlin Date: 25/09/25			
Authorised by: (signature)				Print name: Heather Di Lauro Date: 25/09/25			

METHOD STATEMENT – Excavation of Hand Pits

Project Name:	Land at Thornton-Cleveleys	Project Number:	70100310
This document is to be read in conjunction with	• T480 – Site Risk Assessment for the works. • Construction Phase Plan. • Site Documents Pack (including contractor Risk Assessments and Method Statements (if applicable), COSHH assessments, proposed exploratory hole plan and exploratory hole and sampling schedule). • Permit(s) to Dig		
Purpose	This Method Statement has been written for the excavation of hand dug pits as part of ground investigations. It does not cover temporary propping or shoring of pits. It does not cover utility avoidance surveys – see Procedure for the avoidance of underground utilities and below ground structures: here.		
Equipment:	• Hand digging tools (Insulated shovel, scissor shovels, etc.). • Tablet (or other method for taking logs and notes including stationery)/ weather writer* clipboard or somewhere to store drawings and paperwork. • Pens* / pencils. • Tape measure. • Camera (separate to phone or tablet if necessary). • Laboratory supplied sample containers* and chain of custody sheets (if obtaining samples). • Sampling trowel (stainless steel*). • PID (if head space testing and/or personal monitoring require one). • Spill kit (may be provided by Contractor). • Blue roll. • Heavy plastic sheeting* or boards for soil arisings (if required and if not provided by Contractor). • Detergent / PFAS free decontamination solution* (if required, COSHH assessment to be in Site Documents Pack). • PFAS free deionised water for rinsing equipment. • PFAS free buckets and wastewater storage container for decontamination. • Photo board* (if required). • Pedestrian barriers and hazard tape (if required and if not provided by Contractor) • Permits to Dig for the hand dug pit locations. • CAT and Genny Minimum CAT4+ or equivalent (if not provided by Contractor). • Hand held GPS.		
Site specific requirements	OTHER SITE-SPECIFIC REQUIREMENTS: • Known constraints: Specific to each land parcel and to be assessed as part of a dynamic risk assessment e.g. soft / uneven ground, structures, trench / manhole covers, overhead wires / gantries, rabbit burrow, etc. • Pedestrian barrier requirements around each work location to segregate hand pit works and public/other works: Mobile/folding pedestrian barriers to be placed around hand pitting equipment and hand pit within land parcels that are open to the public. Not required for private/secure land parcels. • Personal / ambient monitoring requirements: No personal or ambient monitoring requirements • Target depth for hand pits: 600mm (unless specifically indicated otherwise based on known tillage or ground disturbance). See exploratory hole and sampling schedule. • Soil sampling requirements: See exploratory hole and sampling schedule for specific location requirements. Generic requirements: - o Surface or near-surface soil (primarily 0.0- 0.05m) - o Sub-surface soil (0.10 – 0.15m)		

METHOD STATEMENT – Excavation of Hand Pits

	- o Deeper soil (0.4 - 0.6m) - o Change in strata to also trigger sample collection • In-situ testing requirements: No in-situ testing required • Chemical laboratory details: - o Samples to be couriered under chain of custody procedures to ALS Lif Sciences Ltd, Hawarden Business Park, Hawarden. CH5 3US. Tel: 01244528700 Email: Hawarden.sales@alsglobal.com - o Samples to be packaged and transported in cooled box/bag provided by the laboratory - o All soil samples collected to be scheduled for PFAS Broad Suite (TM440) in accordance with the exploratory hole and sampling schedule. Note some samples may be selected for interim storage at the laboratory and later scheduling. • Disposal of arisings: During the works, all arisings retrieved are to be stored on sheeting or boards in the order retrieved. Once target depth has been achieved and required samples collected, the arisings are to be replaced within the hole consistent with the order they were obtained. Any deficit (due to sampling) to be made up from a local surface scrape, where feasible. The replaced material should be compacted during backfill and left slightly mounded to allow for settlement. • Decontamination of equipment: Tools to be decontaminated using PFAS free detergent prior to commencement and prior to sample collection. After decontamination a final rinse should be undertaken using laboratory supplied PFAS free deionised water. • QA/QC: equipment/rinsate samples to be collected in accordance with the exploratory hole and sampling schedule.
PFAS specific requirements	<i>*PFAS SPECIFIC CONSIDERATIONS: Items within the method statement marked with an asterix (*) indicates where consideration should be given to the potential for the influence of positive and negative sample bias¹ relating to PFAS. Note, research indicates that the most likely pathway for sample bias is through direct contact between sampling equipment and the sample. Examples are provided below.</i> • Equipment: - o Weather writers, waterproof paper and other equipment comprised of waterproof materials should only be used in inclement weather. Such items should be kept separate from sampling equipment and gloves changed between use of equipment and interaction with the samples. - o Use of waterproof pens including permanent markers and dry wipe markers should be avoided. - o Sample containers should be supplied by the laboratory and specifically for PFAS analysis (Only use high-density polyethylene (HDPE) or polypropylene containers with unlined plastic caps). - o Tools used for digging and sampling should be PFAS free. - o Any plastic sheeting or boards to be used for storing spoil should be PFAS free. - o Decontamination detergents or solutions should be PFAS free and supplied by the laboratory e.g. liquinox. Laboratory supplied PFAS free deionised water should be used for the final rinse during decontamination of sampling equipment. • PPE: Consideration in the use and selection of PPE should also be given to the potential for the introduction of PFAS into the sampling process e.g.

¹ Positive bias is the overestimation of analyte concentration and can result from contamination of samples by field equipment, materials, and sampling procedures used during sample collection, storage, and transport. Negative bias is the underestimation of analyte concentration and can result from improper field sampling procedures, using materials to which the contaminant sorbs, or sample storage conditions that could result in analyte degradation prior to analysis. (NGWA, 2023)

METHOD STATEMENT – Excavation of Hand Pits

	- o Waterproof fabrics can contain PFAS and should only be worn in inclement weather. If worn, all precautions should be taken to avoid contact between the sample and the waterproof fabric. E.g. Sample container should not be stored or transported in coat pockets. Recommended material for field clothing and PPE may include waterproof clothing that contains polyurethane, polyvinyl chloride, wax-coated fabric, rubber, or neoprene. The use of waterproof clothing during sample collection should be documented in the site diary with the refined sampling protocols to be adopted. - o Disposable powder-free nitrile gloves to be changed frequently. Hands should be washed with PFAS-free soap and new, clean disposable gloves should be donned prior to the collection of each sample. - o Application of sunscreen or insect repellents to be undertaken outside of the working area and hands thoroughly washed with PFAS free soap prior to re-entry. Use should be documented in the site diary with the refined sampling protocols to be adopted. • Food and cosmetic products: General consideration to be given to the potential for introduction of PFAS into the sampling process e.g. - o Food products and packaging can contain PFAS. Food should be consumed outside of the working area and packaging disposed of appropriately. Hands to be washed thoroughly with PFAS free soap after consumption or handling of food or food packaging. - o Fabric detergents and cosmetics can contain PFAS. Contact between skin or clothing and the sample should be avoided. - o Disposable powder-free nitrile gloves to be changed frequently. • Disposable powder-free nitrile gloves must be worn at all times and a new pair of nitrile gloves are to be worn prior to the following activities at each sample location: - o Contact with laboratory-supplied sample containers or PFAS-free water containers. - o Decontamination of sampling equipment. - o Sample collection. - o Handling of QA/QC samples including field blanks and equipment blanks. - o After the handling of any non-dedicated sampling equipment or contact with non-decontaminated surfaces.
Detailed Methodology of works to be carried out: <u>Prior to Mobilising to hand pit locations.</u>	• All personnel should wear PPE* as stated in the site-specific instructions/Risk Assessment. • COSHH assessments for all materials used on site should be available. • All staff are to be briefed as to their responsibilities and aware of the safety measures in place during the works. • Hand tools should be insulated. WSP engineers should inspect hand tools for damage and suitability prior to using the tools. Any damaged hand tools are to be disposed of safely and new tools must be purchased.
Equipment decontamination procedure	Equipment decontamination: • Rinse equipment thoroughly with an Alconox®, Citranox® or Liquinox® solution made with laboratory-supplied PFAS-free deionized water. • Triple rinse with laboratory-supplied PFAS-free water. • If elevated concentrations of other organic contaminants are present, wipe the equipment with solvent followed by rinses with detergent and laboratory-supplied PFAS-free water as above; solvent type is to be selected based on local protocols and standards, and could include isopropyl alcohol, methylated spirits (denatured alcohol),

METHOD STATEMENT – Excavation of Hand Pits

	methyl hydrate (methanol) or acetone. Review SDS prior to use of solvent and avoid use of solvent that is a contaminant of concern at the site. • Allow equipment to air dry. • When suitable, store equipment in a clean Ziploc® bag until required. • Decontamination fluids are not to be reused during the sampling program and should be collected in a waste container for proper disposal as per local regulations.
Detailed Methodology of works to be carried out: <u>Establishing work area at hand pit locations</u>	1. Hand pits will be progressed at the locations shown on the exploratory hole location plan and within the utility clearance area that is covered by a permit to dig. 2. Check buried utilities and clearance boxes are clearly marked. If the utility spray paint markings are no longer visible, contact the project manager. 3. Check the work area is safe before setting up. Known constraints/obstructions including ecological ones will be highlighted in the site-specific instructions. 4. Pre-condition photos should be taken before the work area is set up. 5. Pit locations to be recorded using handheld GPS. 6. The work area should be large enough to ensure that there is room for the required equipment, operatives, and spoil and that the investigation team are able to move around freely to minimise the risk of slips, trip and falls. Ensure that good housekeeping takes place including ensuring that trip hazards such as cool boxes, dip tapes and sample containers are stored in a safe place. 7. Set-up pedestrian barriers to segregate work area as required in the site-specific instruction. 8. Set-up personal monitoring if/as required in the site-specific instruction. 9. WSP supervisor/engineer to ensure spill kit, fire extinguisher and first aid kit/ eye wash are available close to the location.
Detailed Methodology of works to be carried out: <u>Hand Pit Excavation</u>	• In-ground excavations are hazardous and can be fatal if not undertaken correctly. Under no circumstances should any WSP employees or sub-contractor enter an excavation, regardless of depth. • Before excavation commences, the supervising WSP engineer will scan the surface of the hand pit with a CAT 4 and signal generator to confirm the absence of services. (Check utility clearance equipment has a valid calibration). • WSP Engineer to issue Permit to Dig. • Knee pads or a kneel pad must be used by the WSP engineer to avoid contact with sharps on the ground when kneeling down. Avoid kneeling if possible. • Plastic sheeting* or bulk bags* will be placed at ground level ready for arisings. Locate soil arisings away from pit edge and samples to be taken from the arisings pile. Segregate arisings based on soil type. • Keep surface dressing material or turf etc. stored separately to avoid mixing with other arisings so that this can be replaced when backfilling and compaction has been completed • Safe digging techniques are to be utilised during excavation works, this includes the use of only insulated spades, shovels and grafts, the use of picks, bars or pinch bars is prohibited. Excessive force should not be used to undertake the excavation and the digging tools should not be thrown into the pit. • Pits will be excavated by the WSP engineer to the required depth as stated in the site-specific requirements. Contact the PM if this is not possible. Hand pits should be terminated, and the PM contacted if any of the following occur to consider whether it is safe to continue: • Visibility is impaired by rapid ingress of water; water should be monitored to ensure this stabilises. • Signs of utilities in the excavation such as clean fill material (pea gravel or sand), marker tape, marker tiles or cables/pipework.

METHOD STATEMENT – Excavation of Hand Pits

	• Visual observation of quantities of suspected asbestos containing materials (ACM) such as lagging or cement bonded asbestos. • Soil arisings should be logged in accordance with BS5930:2015+A1:2020. Where waste materials are encountered these should be logged as close to the guidance documents with detail provided on the type of materials, any dates and percentage composition. • Descriptions of visual and olfactory contamination should accord with the scale provided in the table below. • Soil sampling and in-situ testing to be undertaken as the excavation progresses based on details provided in the site-specific requirement. Soils for chemical sampling to be kept in cool box with real ice, double bagged with LDPE bags (avoid use of chemical freezer packs). Visual and Olfactory Contamination Descriptions <table border="1"> <thead> <tr> <th>Visual Evidence of Contamination</th><th>Olfactory Evidence of Contamination</th></tr> </thead> <tbody> <tr> <td>1 – No obvious contamination</td><td>A – No perceived odour</td></tr> <tr> <td>2 – Slight evidence of contamination</td><td>B – Slight odour</td></tr> <tr> <td>3 – Definite evidence of contamination</td><td>C – Definite odour</td></tr> <tr> <td>4 – Gross contamination (free product)</td><td>D – Strong odour</td></tr> </tbody> </table> If you are unsure about anything, contact the PM and/or Site Manager. If you have any concerns regarding the safety of the work, YOU ARE AUTHORISED TO STOP THE WORK and you have a duty to intervene – you can have confidence that you will always be supported by WSP if you intervene on safety grounds.	Visual Evidence of Contamination	Olfactory Evidence of Contamination	1 – No obvious contamination	A – No perceived odour	2 – Slight evidence of contamination	B – Slight odour	3 – Definite evidence of contamination	C – Definite odour	4 – Gross contamination (free product)	D – Strong odour
Visual Evidence of Contamination	Olfactory Evidence of Contamination										
1 – No obvious contamination	A – No perceived odour										
2 – Slight evidence of contamination	B – Slight odour										
3 – Definite evidence of contamination	C – Definite odour										
4 – Gross contamination (free product)	D – Strong odour										
Detailed Methodology of works to be carried out: <u>Sample Handling</u>	• Samples should be collected in laboratory supplied sample containers, packaged and immediately placed on ice within the laboratory supplied coolboxes/bags. • Samples to be shipped as soon as possible (within 24hrs) to the laboratory using the laboratory arranged courier under chain of custody procedures. • Samples should remain cool during storage and shipment ($\leq 6^{\circ}\text{C}$). Therefore, if samples are stored for an extended period of time, ice may need to be replaced. • Samples should be scheduled for the required analysis within the required timeframe to ensure the relevant holding times are not exceeded. • Coolers must be packed in such a way as to ensure that no leaks occur during shipment and storage. Ice must be double bagged to prevent leaks. Ice bags should be placed in such a way as to ensure good contact between the ice bags and the sample containers, preferably in the upper part of the cooler since warm air tends to stay higher. Organize the containers in the cooler appropriately and add bubble wrap as needed. • Samples from different land parcels should be segregated so that each coolbox/bag only contains samples from a single land parcel.										
Detailed Methodology of works to be carried out: <u>Hand Pit Backfilling</u>	DO NOT LEAVE OPEN EXCAVATIONS UNATTENDED 1. Excavation to be backfilled using the soil arisings. 2. Arisings to be replaced in reverse order and compacted in layers using hand tools. 3. Obtain a photograph of the reinstated hand pit and work area. 4. WSP Engineer to complete and close the Permit to Dig. In areas accessible to the public, all hand pits to be fenced with pedestrian barriers to prevent unauthorised access to work area. No open hand pit to be left open and unfenced or unattended. NB the hand pits are unlikely to exceed 0.3m diameter and 0.6m depth and										

METHOD STATEMENT – Excavation of Hand Pits

	therefore only represent a potential trip hazard rather than an unstable excavation or fall from height.						
Required Personnel Protective Equipment:	 Safety Boots	 Hard Hats	 Safety Gloves	 Hearing Protection	 Eye Protection	 Respiratory Protection	Other: 1. Hi-visibility waistcoat/ jacket/ coat* 2. Knee pads 3. PFAS free disposable Gloves* 4. Weather dependent PPE e.g. waterproofs* or sunscreen* (use to be documented in site diary with the refined sampling protocols to be adopted)
Applicable:	Yes Conform to 20345:2011 and protective mid-sole	Yes Conforms to EN397	Yes Cut resistant level 3 EN388	No	Yes Splash and impact resistant with sides EN166	No	
Prepared by: (signature)				Print name: Katie Gamlin Date: 06/08/24			
Authorised by: (signature)				Print name: Heather Di Lauro Date: 12/08/24			

METHOD STATEMENT – Supervision of GPR Survey

Project Name:	Thornton preliminary offsite sampling	Project Number:	70100310				
This document is to be read in conjunction with	- T480 – Site Risk Assessment for the works - Construction Phase Plan - Site Documents Pack (including Risk Assessment and Method Statement provided by the Contractor, COSHH assessments, exploratory hole plan). - GPRS Risk Assessment						
Purpose	This Method Statement has been written for the supervision of GPR Survey as part of a wider ground investigation. The WSP procedure for the avoidance of underground utilities and below ground structures is available here.						
Equipment:	- Tablet (or other method for taking logs and notes including stationery)/ Weather writer clipboard or somewhere to store drawings and paperwork. - Camera (separate to phone or tablet if necessary).						
Site specific requirements	- Known constraints: uneven ground surfaces and vegetation - Pedestrian barrier requirements around each work location to segregate works and public/other works: pedestrian barriers placed around survey area in areas accessible to the general public.						
Detailed Methodology of works to be carried out: Prior to Mobilising to clearance locations.	- All staff should wear PPE as stated in the Site-specific instructions/Risk Assessment. - Check any aerosol paints proposed to be used by the contractor for demarcating cleared areas are PFAS free. - Supervision of works to instruct contractor on locations to be cleared, ensure methodology is followed, and address any public interactions.						
Detailed Methodology of works to be carried out: Establishing work area and conducting survey	- Utility clearance to be undertaken at the locations shown on the exploratory hole location plan. Inform the Contractor of the area(s) required to be cleared. - Check the work area is safe before proceeding. - Ensure that good housekeeping takes place including ensuring that trip hazards are minimised (e.g. equipment stored in a safe place). - Set-up barriers if/as required in Site-specific instructions. If you are unsure about anything, contact the PM and/or Site Manager. If you have any concerns regarding the safety of the work, YOU ARE AUTHORISED TO STOP THE WORK and you have a duty to intervene – you can have confidence that you will always be supported by Wood if you intervene on safety grounds.						
Required Personnel Protective Equipment:	 Safety Boots	 Hard Hats	 Safety Gloves	 Hearing Protection	 Eye Protection	 Respiratory Protection	Other:
Applicable:	Yes Conform to 20345:2011 and protective mid-sole	Yes Conforms to EN397	Yes Cut resistant level 3 EN388	No	No	No	1. Hi-visibility waistcoat/ jacket/ coat
Prepared by: (signature)				Print name:			
				Date:			

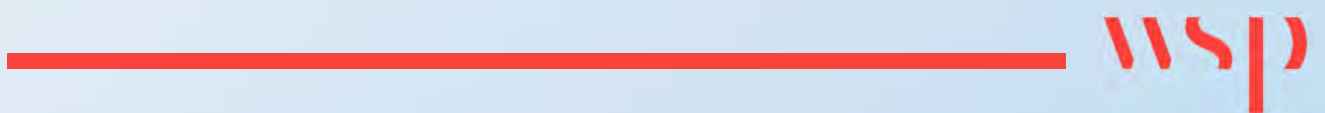
METHOD STATEMENT – Supervision of GPR Survey

Authorised by:
(signature)

Print name:
Date:

Appendix E

SAMPLE TABLE



Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP301	A			Soil	0	0.1	GR03-SP301-A
GR03	SP301	A		-PFOA	Soil	0	0.1	GR03-SP301-A-PFOA
GR03	SP301	A			Soil	0.2	0.3	GR03-SP301-A
GR03	SP301	A		-S	Water	0.2	0.3	GR03-SP301-A-S
GR03	SP301	A			Soil	0.4	0.5	GR03-SP301-A
GR03	SP301	B			Soil	0.1	0.2	GR03-SP301-B
GR03	SP301	B			Soil	0.3	0.4	GR03-SP301-B
GR03	SP301	B			Soil	0.5	0.6	GR03-SP301-B
GR03	SP301	C			Soil	0	0.1	GR03-SP301-C
GR03	SP301	C			Soil	0.3	0.4	GR03-SP301-C
GR03	SP301	C			Soil	0.4	0.5	GR03-SP301-C
GR03	SP301	D			Soil	0.1	0.2	GR03-SP301-D
GR03	SP301	D			Soil	0.2	0.3	GR03-SP301-D
GR03	SP301	D		-PFOA	Soil	0.2	0.3	GR03-SP301-D-PFOA
GR03	SP301	D			Soil	0.5	0.6	GR03-SP301-D
GR03	SP301	E			Soil	0	0.1	GR03-SP301-E
GR03	SP301	E			Soil	0.2	0.3	GR03-SP301-E
GR03	SP301	E			Soil	0.4	0.5	GR03-SP301-E
GR03	SP301	E		-T	Water	0.4	0.5	GR03-SP301-E-T
GR03	SP301	F	-S1	-A1	Soil	0.1	0.2	GR03-SP301-F-S1-A1
GR03	SP301	F	-S1	-A2	Soil	0.1	0.201	GR03-SP301-F-S1-A2
GR03	SP301	F	-S2	-A1	Soil	0.1	0.2	GR03-SP301-F-S2-A1
GR03	SP301	F	-S2	-A2	Soil	0.1	0.201	GR03-SP301-F-S2-A2
GR03	SP301	F	-S1		Soil	0.3	0.4	GR03-SP301-F-S1
GR03	SP301	F	-S1		Soil	0.5	0.6	GR03-SP301-F-S1
GR03	SP301	G			Soil	0	0.1	GR03-SP301-G
GR03	SP301	G		-PFOA	Soil	0	0.1	GR03-SP301-G-PFOA
GR03	SP301	G			Soil	0.3	0.4	GR03-SP301-G
GR03	SP301	G			Soil	0.4	0.5	GR03-SP301-G
GR03	SP302	A			Soil	0.1	0.2	GR03-SP302-A
GR03	SP302	A			Soil	0.2	0.3	GR03-SP302-A
GR03	SP302	A			Soil	0.5	0.6	GR03-SP302-A
GR03	SP302	B			Soil	0	0.1	GR03-SP302-B
GR03	SP302	B		-S	Water	0	0.1	GR03-SP302-B-S
GR03	SP302	B			Soil	0.2	0.3	GR03-SP302-B
GR03	SP302	B			Soil	0.4	0.5	GR03-SP302-B
GR03	SP302	C			Soil	0.1	0.2	GR03-SP302-C
GR03	SP302	C			Soil	0.3	0.4	GR03-SP302-C
GR03	SP302	C			Soil	0.5	0.6	GR03-SP302-C
GR03	SP302	C		-PFOA	Soil	0.5	0.6	GR03-SP302-C-PFOA
GR03	SP302	D			Soil	0	0.1	GR03-SP302-D
GR03	SP302	D			Soil	0.3	0.4	GR03-SP302-D
GR03	SP302	D			Soil	0.4	0.5	GR03-SP302-D
GR03	SP302	E	-S1		Soil	0.1	0.2	GR03-SP302-E-S1
GR03	SP302	E	-S1	-T	Water	0.1	0.2	GR03-SP302-E-S1-T
GR03	SP302	E	-S1	-A1	Soil	0.2	0.3	GR03-SP302-E-S1-A1
GR03	SP302	E	-S1	-A2	Soil	0.2	0.301	GR03-SP302-E-S1-A2
GR03	SP302	E	-S2	-A1	Soil	0.2	0.3	GR03-SP302-E-S2-A1
GR03	SP302	E	-S2	-A2	Soil	0.2	0.301	GR03-SP302-E-S2-A2
GR03	SP302	E	-S1		Soil	0.5	0.6	GR03-SP302-E-S1
GR03	SP303	A			Soil	0	0.1	GR03-SP303-A
GR03	SP303	A			Soil	0.3	0.4	GR03-SP303-A
GR03	SP303	A			Soil	0.4	0.5	GR03-SP303-A
GR03	SP303	A		-PFOA	Soil	0.4	0.5	GR03-SP303-A-PFOA
GR03	SP303	B	-S1		Soil	0.1	0.2	GR03-SP303-B-S1
GR03	SP303	B	-S1		Soil	0.2	0.3	GR03-SP303-B-S1
GR03	SP303	B	-S1	-A1	Soil	0.5	0.6	GR03-SP303-B-S1-A1
GR03	SP303	B	-S1	-A2	Soil	0.5	0.601	GR03-SP303-B-S1-A2
GR03	SP303	B	-S2	-A1	Soil	0.5	0.6	GR03-SP303-B-S2-A1
GR03	SP303	B	-S2	-A2	Soil	0.5	0.601	GR03-SP303-B-S2-A2
GR03	SP303	C			Soil	0	0.1	GR03-SP303-C
GR03	SP303	C			Soil	0.2	0.3	GR03-SP303-C
GR03	SP303	C		-S	Water	0.2	0.3	GR03-SP303-C-S

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP303	C			Soil	0.4	0.5	GR03-SP303-C
GR03	SP303	D			Soil	0.1	0.2	GR03-SP303-D
GR03	SP303	D			Soil	0.3	0.4	GR03-SP303-D
GR03	SP303	D			Soil	0.5	0.6	GR03-SP303-D
GR03	SP303	E		-T	Water	0	0.1	GR03-SP303-E-T
GR03	SP303	E			Soil	0	0.1	GR03-SP303-E
GR03	SP303	E			Soil	0.3	0.4	GR03-SP303-E
GR03	SP303	E			Soil	0.4	0.5	GR03-SP303-E
GR03	SP303	F			Soil	0.1	0.2	GR03-SP303-F
GR03	SP303	F			Soil	0.2	0.3	GR03-SP303-F
GR03	SP303	F		-PFOA	Soil	0.2	0.3	GR03-SP303-F-PFOA
GR03	SP303	F			Soil	0.5	0.6	GR03-SP303-F
GR03	SP303	G			Soil	0	0.1	GR03-SP303-G
GR03	SP303	G			Soil	0.2	0.3	GR03-SP303-G
GR03	SP303	G			Soil	0.4	0.5	GR03-SP303-G
GR03	SP304	A	-S1		Soil	0.1	0.2	GR03-SP304-A-S1
GR03	SP304	A	-S1	-T	Water	0.1	0.2	GR03-SP304-A-S1-T
GR03	SP304	A	-S1	-A1	Soil	0.3	0.4	GR03-SP304-A-S1-A1
GR03	SP304	A	-S1	-A2	Soil	0.3	0.401	GR03-SP304-A-S1-A2
GR03	SP304	A	-S2	-A1	Soil	0.3	0.4	GR03-SP304-A-S2-A1
GR03	SP304	A	-S2	-A2	Soil	0.3	0.401	GR03-SP304-A-S2-A2
GR03	SP304	A	-S1		Soil	0.5	0.6	GR03-SP304-A-S1
GR03	SP304	B			Soil	0	0.1	GR03-SP304-B
GR03	SP304	B		-PFOA	Soil	0	0.1	GR03-SP304-B-PFOA
GR03	SP304	B			Soil	0.2	0.3	GR03-SP304-B
GR03	SP304	B			Soil	0.3	0.4	GR03-SP304-B
GR03	SP304	C			Soil	0.1	0.2	GR03-SP304-C
GR03	SP304	C			Soil	0.2	0.3	GR03-SP304-C
GR03	SP304	C			Soil	0.5	0.6	GR03-SP304-C
GR03	SP304	C		-S	Water	0.5	0.6	GR03-SP304-C-S
GR03	SP304	D			Soil	0	0.1	GR03-SP304-D
GR03	SP304	D			Soil	0.2	0.3	GR03-SP304-D
GR03	SP304	D		-PFOA	Soil	0.2	0.3	GR03-SP304-D-PFOA
GR03	SP304	D			Soil	0.4	0.5	GR03-SP304-D
GR03	SP304	E			Soil	0	0.1	GR03-SP304-E
GR03	SP304	E			Soil	0.2	0.3	GR03-SP304-E
GR03	SP304	E			Soil	0.4	0.5	GR03-SP304-E
GR03	SP304	F			Soil	0	0.1	GR03-SP304-F
GR03	SP304	F			Soil	0.3	0.4	GR03-SP304-F
GR03	SP304	F			Soil	0.4	0.5	GR03-SP304-F
GR03	SP304	G			Soil	0.1	0.2	GR03-SP304-G
GR03	SP304	G			Soil	0.2	0.3	GR03-SP304-G
GR03	SP304	G		-PFOA	Soil	0.2	0.3	GR03-SP304-G-PFOA
GR03	SP304	G			Soil	0.5	0.6	GR03-SP304-G
GR03	SP305	A			Soil	0	0.1	GR03-SP305-A
GR03	SP305	A			Soil	0.2	0.3	GR03-SP305-A
GR03	SP305	A			Soil	0.4	0.5	GR03-SP305-A
GR03	SP305	A		-T	Water	0.4	0.5	GR03-SP305-A-T
GR03	SP305	B			Soil	0.1	0.2	GR03-SP305-B
GR03	SP305	B			Soil	0.2	0.3	GR03-SP305-B
GR03	SP305	B			Soil	0.5	0.6	GR03-SP305-B
GR03	SP305	C			Soil	0	0.1	GR03-SP305-C
GR03	SP305	C		-PFOA	Soil	0	0.1	GR03-SP305-C-PFOA
GR03	SP305	C			Soil	0.2	0.3	GR03-SP305-C
GR03	SP305	C			Soil	0.4	0.5	GR03-SP305-C
GR03	SP305	D			Soil	0.1	0.2	GR03-SP305-D
GR03	SP305	D			Soil	0.3	0.4	GR03-SP305-D
GR03	SP305	D			Soil	0.5	0.6	GR03-SP305-D
GR03	SP305	E	-S1		Soil	0	0.1	GR03-SP305-E-S1
GR03	SP305	E	-S1	-S	Water	0	0.1	GR03-SP305-E-S1-S
GR03	SP305	E	-S1		Soil	0.3	0.4	GR03-SP305-E-S1
GR03	SP305	E	-S1	-A1	Soil	0.4	0.5	GR03-SP305-E-S1-A1
GR03	SP305	E	-S1	-A2	Soil	0.4	0.501	GR03-SP305-E-S1-A2

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP305	E	-S2	-A1	Soil	0.4	0.5	GR03-SP305-E-S2-A1
GR03	SP305	E	-S2	-A2	Soil	0.4	0.501	GR03-SP305-E-S2-A2
GR03	SP306	A			Soil	0.1	0.2	GR03-SP306-A
GR03	SP306	A			Soil	0.3	0.4	GR03-SP306-A
GR03	SP306	A			Soil	0.5	0.6	GR03-SP306-A
GR03	SP306	B			Soil	0.2	0.3	GR03-SP306-B
GR03	SP306	B			Soil	0.2	0.3	GR03-SP306-B
GR03	SP306	B		-PFOA	Soil	0	0.1	GR03-SP306-B-PFOA
GR03	SP306	B			Soil	0.4	0.5	GR03-SP306-B
GR03	SP306	C	-S1	-A1	Soil	0.1	0.2	GR03-SP306-C-S1-A1
GR03	SP306	C	-S1	-A2	Soil	0.1	0.201	GR03-SP306-C-S1-A2
GR03	SP306	C	-S2	-A1	Soil	0.1	0.2	GR03-SP306-C-S2-A1
GR03	SP306	C	-S2	-A2	Soil	0.1	0.201	GR03-SP306-C-S2-A2
GR03	SP306	C	-S1		Soil	0.2	0.3	GR03-SP306-C-S1
GR03	SP306	C	-S1		Soil	0.5	0.6	GR03-SP306-C-S1
GR03	SP306	D			Soil	0	0.1	GR03-SP306-D
GR03	SP306	D			Soil	0.2	0.3	GR03-SP306-D
GR03	SP306	D			Soil	0.4	0.5	GR03-SP306-D
GR03	SP306	E			Soil	0.1	0.2	GR03-SP306-E
GR03	SP306	E			Soil	0.3	0.4	GR03-SP306-E
GR03	SP306	E			Soil	0.5	0.6	GR03-SP306-E
GR03	SP306	E		-PFOA	Soil	0.5	0.6	GR03-SP306-E-PFOA
GR03	SP307	A	-S1		Soil	0	0.1	GR03-SP307-A-S1
GR03	SP307	A	-S1	-A1	Soil	0.3	0.4	GR03-SP307-A-S1-A1
GR03	SP307	A	-S1	-A2	Soil	0.3	0.401	GR03-SP307-A-S1-A2
GR03	SP307	A	-S2	-A1	Soil	0.3	0.4	GR03-SP307-A-S2-A1
GR03	SP307	A	-S2	-A2	Soil	0.3	0.401	GR03-SP307-A-S2-A2
GR03	SP307	A	-S1		Soil	0.4	0.5	GR03-SP307-A-S1
GR03	SP307	B			Soil	0.1	0.2	GR03-SP307-B
GR03	SP307	B			Soil	0.2	0.3	GR03-SP307-B
GR03	SP307	B		-S	Water	0	0.6	GR03-SP307-B-S
GR03	SP307	B			Soil	0.5	0.6	GR03-SP307-B
GR03	SP307	C			Soil	0	0.1	GR03-SP307-C
GR03	SP307	C			Soil	0.2	0.3	GR03-SP307-C
GR03	SP307	C			Soil	0.4	0.5	GR03-SP307-C
GR03	SP307	C		-PFOA	Soil	0.4	0.5	GR03-SP307-C-PFOA
GR03	SP307	D			Soil	0.1	0.2	GR03-SP307-D
GR03	SP307	D			Soil	0.3	0.4	GR03-SP307-D
GR03	SP307	D			Soil	0.5	0.6	GR03-SP307-D
GR03	SP307	E			Soil	0	0.1	GR03-SP307-E
GR03	SP307	E			Soil	0.3	0.4	GR03-SP307-E
GR03	SP307	E			Soil	0.4	0.5	GR03-SP307-E
GR03	SP307	F			Soil	0.1	0.2	GR03-SP307-F
GR03	SP307	F			Soil	0.2	0.3	GR03-SP307-F
GR03	SP307	F		-PFOA	Soil	0.2	0.3	GR03-SP307-F-PFOA
GR03	SP307	F			Soil	0.5	0.6	GR03-SP307-F
GR03	SP307	G			Soil	0	0.1	GR03-SP307-G
GR03	SP307	G			Soil	0.2	0.3	GR03-SP307-G
GR03	SP307	G			Soil	0.4	0.5	GR03-SP307-G
GR03	SP307	G		-Geotextile	Soil	0.1	0.1	GR03-SP307-G-Geotextile
GR03	SP308	A			Soil	0.1	0.2	GR03-SP308-A
GR03	SP308	A			Soil	0.3	0.4	GR03-SP308-A
GR03	SP308	A		-PFOA	Soil	0.3	0.4	GR03-SP308-A-PFOA
GR03	SP308	A			Soil	0.5	0.6	GR03-SP308-A
GR03	SP308	A		-Geotextile	Soil	0.5	0.5	GR03-SP308-A-Geotextile
GR03	SP308	B			Soil	0	0.1	GR03-SP308-B
GR03	SP308	B			Soil	0.3	0.4	GR03-SP308-B
GR03	SP308	B			Soil	0.4	0.5	GR03-SP308-B
GR03	SP308	C			Soil	0.1	0.2	GR03-SP308-C
GR03	SP308	C			Soil	0.2	0.3	GR03-SP308-C
GR03	SP308	C		-S	Water	0	0.6	GR03-SP308-C-S
GR03	SP308	C			Soil	0.5	0.6	GR03-SP308-C
GR03	SP308	D	-S1		Soil	0	0.1	GR03-SP308-D-S1

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP308	D	-S1		Soil	0.2	0.3	GR03-SP308-D-S1
GR03	SP308	D	-S1	-A1	Soil	0.4	0.5	GR03-SP308-D-S1-A1
GR03	SP308	D	-S1	-A2	Soil	0.4	0.501	GR03-SP308-D-S1-A2
GR03	SP308	D	-S2	-A1	Soil	0.4	0.5	GR03-SP308-D-S2-A1
GR03	SP308	D	-S2	-A2	Soil	0.4	0.501	GR03-SP308-D-S2-A2
GR03	SP308	E			Soil	0.1	0.2	GR03-SP308-E
GR03	SP308	E		-PFOA	Soil	0.1	0.2	GR03-SP308-E-PFOA
GR03	SP308	E			Soil	0.3	0.4	GR03-SP308-E
GR03	SP308	E			Soil	0.5	0.6	GR03-SP308-E
GR03	SP308	F			Soil	0	0.1	GR03-SP308-F
GR03	SP308	F			Soil	0.3	0.4	GR03-SP308-F
GR03	SP308	F			Soil	0.4	0.5	GR03-SP308-F
GR03	SP308	G			Soil	0.1	0.2	GR03-SP308-G
GR03	SP308	G			Soil	0.2	0.3	GR03-SP308-G
GR03	SP308	G			Soil	0.5	0.6	GR03-SP308-G
GR03	SP309	A			Soil	0	0.1	GR03-SP309-A
GR03	SP309	A		-S	Water	0	0.1	GR03-SP309-A-S
GR03	SP309	A			Soil	0.2	0.3	GR03-SP309-A
GR03	SP309	A		-PFOA	Soil	0.2	0.3	GR03-SP309-A-PFOA
GR03	SP309	A			Soil	0.4	0.5	GR03-SP309-A
GR03	SP309	B	-S1		Soil	0.1	0.2	GR03-SP309-B-S1
GR03	SP309	B	-S1	-A1	Soil	0.3	0.4	GR03-SP309-B-S1-A1
GR03	SP309	B	-S1	-A2	Soil	0.3	0.401	GR03-SP309-B-S1-A2
GR03	SP309	B	-S2	-A1	Soil	0.3	0.4	GR03-SP309-B-S2-A1
GR03	SP309	B	-S2	-A2	Soil	0.3	0.401	GR03-SP309-B-S2-A2
GR03	SP309	B	-S1		Soil	0.5	0.6	GR03-SP309-B-S1
GR03	SP309	C			Soil	0	0.1	GR03-SP309-C
GR03	SP309	C			Soil	0.3	0.4	GR03-SP309-C
GR03	SP309	C			Soil	0.4	0.5	GR03-SP309-C
GR03	SP309	D			Soil	0.1	0.2	GR03-SP309-D
GR03	SP309	D			Soil	0.2	0.3	GR03-SP309-D
GR03	SP309	D		-T	Water	0.2	0.3	GR03-SP309-D-T
GR03	SP309	D			Soil	0.5	0.6	GR03-SP309-D
GR03	SP309	E			Soil	0	0.1	GR03-SP309-E
GR03	SP309	E			Soil	0.2	0.3	GR03-SP309-E
GR03	SP309	E			Soil	0.4	0.5	GR03-SP309-E
GR03	SP309	F			Soil	0.1	0.2	GR03-SP309-F
GR03	SP309	F		-PFOA	Soil	0.1	0.2	GR03-SP309-F-PFOA
GR03	SP309	F			Soil	0.3	0.4	GR03-SP309-F
GR03	SP309	F			Soil	0.5	0.6	GR03-SP309-F
GR03	SP309	G			Soil	0	0.1	GR03-SP309-G
GR03	SP309	G			Soil	0.3	0.4	GR03-SP309-G
GR03	SP309	G			Soil	0.4	0.5	GR03-SP309-G
GR03	SP310	A			Soil	0.1	0.2	GR03-SP310-A
GR03	SP310	A		-S	Water	0	0.6	GR03-SP310-A-S
GR03	SP310	A			Soil	0.2	0.3	GR03-SP310-A
GR03	SP310	A			Soil	0.5	0.6	GR03-SP310-A
GR03	SP310	A		-PFOA	Soil	0.5	0.6	GR03-SP310-A-PFOA
GR03	SP310	B	-S1		Soil	0	0.1	GR03-SP310-B-S1
GR03	SP310	B	-S1		Soil	0.2	0.3	GR03-SP310-B-S1
GR03	SP310	B	-S1	-A1	Soil	0.4	0.5	GR03-SP310-B-S1-A1
GR03	SP310	B	-S1	-A2	Soil	0.4	0.501	GR03-SP310-B-S1-A2
GR03	SP310	B	-S2	-A1	Soil	0.4	0.5	GR03-SP310-B-S2-A1
GR03	SP310	B	-S2	-A2	Soil	0.4	0.501	GR03-SP310-B-S2-A2
GR03	SP310	C			Soil	0.1	0.2	GR03-SP310-C
GR03	SP310	C			Soil	0.3	0.4	GR03-SP310-C
GR03	SP310	C		-PFOA	Soil	0.3	0.4	GR03-SP310-C-PFOA
GR03	SP310	C			Soil	0.5	0.6	GR03-SP310-C
GR03	SP310	D			Soil	0	0.1	GR03-SP310-D
GR03	SP310	D			Soil	0.3	0.4	GR03-SP310-D
GR03	SP310	D			Soil	0.4	0.5	GR03-SP310-D
GR03	SP310	E			Soil	0.1	0.2	GR03-SP310-E
GR03	SP310	E			Soil	0.3	0.4	GR03-SP310-E

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP310	E		-T	Water	0.3	0.4	GR03-SP310-E-T
GR03	SP310	E			Soil	0.5	0.6	GR03-SP310-E
GR03	SP311	A			Soil	0	0.1	GR03-SP311-A
GR03	SP311	A			Soil	0.3	0.4	GR03-SP311-A
GR03	SP311	A		-PFOA	Soil	0.3	0.4	GR03-SP311-A-PFOA
GR03	SP311	B			Soil	0.1	0.2	GR03-SP311-B
GR03	SP311	B			Soil	0.2	0.3	GR03-SP311-B
GR03	SP311	B			Soil	0.5	0.58	GR03-SP311-B
GR03	SP311	C	-S1	-A1	Soil	0	0.1	GR03-SP311-C-S1-A1
GR03	SP311	C	-S1	-A2	Soil	0	0.1	GR03-SP311-C-S1-A2
GR03	SP311	C	-S2	-A1	Soil	0	0.1	GR03-SP311-C-S2-A1
GR03	SP311	C	-S2	-A2	Soil	0	0.1	GR03-SP311-C-S2-A2
GR03	SP311	C	-S1		Soil	0.2	0.3	GR03-SP311-C-S1
GR03	SP311	C	-S1		Soil	0.4	0.5	GR03-SP311-C-S1
GR03	SP311	D			Soil	0.1	0.2	GR03-SP311-D
GR03	SP311	D			Soil	0.3	0.4	GR03-SP311-D
GR03	SP311	D		-S	Water	0	0.6	GR03-SP311-D-S
GR03	SP311	D			Soil	0.5	0.6	GR03-SP311-D
GR03	SP311	E			Soil	0	0.1	GR03-SP311-E
GR03	SP311	E			Soil	0.3	0.4	GR03-SP311-E
GR03	SP311	E			Soil	0.4	0.5	GR03-SP311-E
GR03	SP311	E		-PFOA	Soil	0.4	0.5	GR03-SP311-E-PFOA
GR03	SP312	A			Soil	0.1	0.2	GR03-SP312-A
GR03	SP312	A			Soil	0.3	0.4	GR03-SP312-A
GR03	SP312	A			Soil	0.5	0.6	GR03-SP312-A
GR03	SP312	B			Soil	0	0.1	GR03-SP312-B
GR03	SP312	B			Soil	0.3	0.4	GR03-SP312-B
GR03	SP312	B			Soil	0.4	0.5	GR03-SP312-B
GR03	SP312	B		-PFOA	Soil	0.4	0.5	GR03-SP312-B-PFOA
GR03	SP312	C			Soil	0.1	0.2	GR03-SP312-C
GR03	SP312	C		-S	Water	0.1	0.2	GR03-SP312-C-S
GR03	SP312	C			Soil	0.3	0.4	GR03-SP312-C
GR03	SP312	C			Soil	0.5	0.6	GR03-SP312-C
GR03	SP312	D			Soil	0	0.1	GR03-SP312-D
GR03	SP312	D		-PFOA	Soil	0	0.1	GR03-SP312-D-PFOA
GR03	SP312	D			Soil	0.3	0.4	GR03-SP312-D
GR03	SP312	D			Soil	0.4	0.5	GR03-SP312-D
GR03	SP312	E	-S1	-A1	Soil	0.1	0.2	GR03-SP312-E-S1-A1
GR03	SP312	E	-S1	-A2	Soil	0.1	0.201	GR03-SP312-E-S1-A2
GR03	SP312	E	-S2	-A1	Soil	0.1	0.2	GR03-SP312-E-S2-A1
GR03	SP312	E	-S2	-A2	Soil	0.1	0.201	GR03-SP312-E-S2-A2
GR03	SP312	E	-S1		Soil	0.2	0.3	GR03-SP312-E-S1
GR03	SP312	E	-S1		Soil	0.5	0.6	GR03-SP312-E-S1
GR03	SP312	E	-S1	-T	Water	0.5	0.6	GR03-SP312-E-S1-T
GR03	SP312	F			Soil	0	0.1	GR03-SP312-F
GR03	SP312	F			Soil	0.2	0.3	GR03-SP312-F
GR03	SP312	F			Soil	0.4	0.5	GR03-SP312-F
GR03	SP312	G			Soil	0.1	0.2	GR03-SP312-G
GR03	SP312	G			Soil	0.3	0.4	GR03-SP312-G
GR03	SP312	G			Soil	0.5	0.6	GR03-SP312-G
GR03	SP313	A			Soil	0	0.1	GR03-SP313-A
GR03	SP313	A			Soil	0.2	0.3	GR03-SP313-A
GR03	SP313	A			Soil	0.4	0.5	GR03-SP313-A
GR03	SP313	B			Soil	0.1	0.2	GR03-SP313-B
GR03	SP313	B		-PFOA	Soil	0.1	0.2	GR03-SP313-B-PFOA
GR03	SP313	B			Soil	0.3	0.4	GR03-SP313-B
GR03	SP313	B			Soil	0.5	0.6	GR03-SP313-B
GR03	SP313	C	-S1	-A1	Soil	0	0.1	GR03-SP313-C-S1-A1
GR03	SP313	C	-S1	-A2	Soil	0	0.1	GR03-SP313-C-S1-A2
GR03	SP313	C	-S2	-A1	Soil	0	0.1	GR03-SP313-C-S2-A1
GR03	SP313	C	-S2	-A2	Soil	0	0.1	GR03-SP313-C-S2-A2
GR03	SP313	C	-S1		Soil	0.3	0.4	GR03-SP313-C-S1
GR03	SP313	C	-S1	-S	Water	0	0.5	GR03-SP313-C-S1-S

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP313	C	-S1		Soil	0.4	0.5	GR03-SP313-C-S1
GR03	SP313	D			Soil	0.1	0.2	GR03-SP313-D
GR03	SP313	D			Soil	0.2	0.3	GR03-SP313-D
GR03	SP313	D			Soil	0.5	0.6	GR03-SP313-D
GR03	SP313	E			Soil	0.1	0.2	GR03-SP313-E
GR03	SP313	E		-T	Water	0.1	0.2	GR03-SP313-E-T
GR03	SP313	E			Soil	0.3	0.4	GR03-SP313-E
GR03	SP313	E			Soil	0.5	0.6	GR03-SP313-E
GR03	SP313	E		-PFOA	Soil	0.5	0.6	GR03-SP313-E-PFOA
GR03	SP314	A			Soil	0.1	0.2	GR03-SP314-A
GR03	SP314	A			Soil	0.2	0.3	GR03-SP314-A
GR03	SP314	A			Soil	0.5	0.6	GR03-SP314-A
GR03	SP314	B	-S1		Soil	0	0.1	GR03-SP314-B-S1
GR03	SP314	B	-S1		Soil	0.2	0.3	GR03-SP314-B-S1
GR03	SP314	B	-S1	-A1	Soil	0.4	0.5	GR03-SP314-B-S1-A1
GR03	SP314	B	-S1	-A2	Soil	0.4	0.501	GR03-SP314-B-S1-A2
GR03	SP314	B	-S2	-A1	Soil	0.4	0.5	GR03-SP314-B-S2-A1
GR03	SP314	B	-S2	-A2	Soil	0.4	0.501	GR03-SP314-B-S2-A2
GR03	SP314	C			Soil	0.1	0.2	GR03-SP314-C
GR03	SP314	C		-PFOA	Soil	0.1	0.2	GR03-SP314-C-PFOA
GR03	SP314	C			Soil	0.3	0.4	GR03-SP314-C
GR03	SP314	C			Soil	0.5	0.6	GR03-SP314-C
GR03	SP314	C		-S	Water	0	0.6	GR03-SP314-C-S
GR03	SP314	D			Soil	0	0.1	GR03-SP314-D
GR03	SP314	D		-T	Water	0	0.1	GR03-SP314-D-T
GR03	SP314	D			Soil	0.3	0.4	GR03-SP314-D
GR03	SP314	D			Soil	0.4	0.5	GR03-SP314-D
GR03	SP314	E			Soil	0.1	0.2	GR03-SP314-E
GR03	SP314	E			Soil	0.2	0.3	GR03-SP314-E
GR03	SP314	E		-PFOA	Soil	0.2	0.3	GR03-SP314-E-PFOA
GR03	SP314	E			Soil	0.5	0.6	GR03-SP314-E
GR03	SP314	F			Soil	0	0.1	GR03-SP314-F
GR03	SP314	F			Soil	0.2	0.3	GR03-SP314-F
GR03	SP314	F			Soil	0.4	0.5	GR03-SP314-F
GR03	SP314	G			Soil	0.1	0.2	GR03-SP314-G
GR03	SP314	G			Soil	0.3	0.4	GR03-SP314-G
GR03	SP314	G			Soil	0.5	0.6	GR03-SP314-G
GR03	SP315	A			Soil	0	0.1	GR03-SP315-A
GR03	SP315	A			Soil	0.3	0.4	GR03-SP315-A
GR03	SP315	A			Soil	0.4	0.5	GR03-SP315-A
GR03	SP315	B	-S1	-A1	Soil	0.1	0.2	GR03-SP315-B-S1-A1
GR03	SP315	B	-S1	-A2	Soil	0.1	0.201	GR03-SP315-B-S1-A2
GR03	SP315	B	-S2	-A1	Soil	0.1	0.2	GR03-SP315-B-S2-A1
GR03	SP315	B	-S2	-A2	Soil	0.1	0.201	GR03-SP315-B-S2-A2
GR03	SP315	B	-S1		Soil	0.2	0.3	GR03-SP315-B-S1
GR03	SP315	B	-S1	-S	Water	0	0.6	GR03-SP315-B-S1-S
GR03	SP315	B	-S1		Soil	0.5	0.6	GR03-SP315-B-S1
GR03	SP315	C			Soil	0	0.1	GR03-SP315-C
GR03	SP315	C		-PFOA	Soil	0	0.1	GR03-SP315-C-PFOA
GR03	SP315	C			Soil	0.2	0.3	GR03-SP315-C
GR03	SP315	C			Soil	0.4	0.5	GR03-SP315-C
GR03	SP315	D			Soil	0.1	0.2	GR03-SP315-D
GR03	SP315	D			Soil	0.3	0.4	GR03-SP315-D
GR03	SP315	D			Soil	0.5	0.6	GR03-SP315-D
GR03	SP315	D		-S	Water	0	0.6	GR03-SP315-D-S
GR03	SP315	E			Soil	0	0.1	GR03-SP315-E
GR03	SP315	E			Soil	0.3	0.4	GR03-SP315-E
GR03	SP315	E			Soil	0.4	0.5	GR03-SP315-E
GR03	SP315	E		-PFOA	Soil	0.4	0.5	GR03-SP315-E-PFOA
GR03	SP315	F			Soil	0.1	0.2	GR03-SP315-F
GR03	SP315	F			Soil	0.2	0.3	GR03-SP315-F
GR03	SP315	F			Soil	0.4	0.5	GR03-SP315-F
GR03	SP315	F		-T	Water	0.4	0.5	GR03-SP315-F-T

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP315	G			Soil	0	0.1	GR03-SP315-G
GR03	SP315	G			Soil	0.2	0.3	GR03-SP315-G
GR03	SP315	G			Soil	0.4	0.5	GR03-SP315-G
GR03	SP316	A			Soil	0.1	0.2	GR03-SP316-A
GR03	SP316	A		-PFOA	Soil	0.1	0.2	GR03-SP316-A-PFOA
GR03	SP316	A			Soil	0.3	0.4	GR03-SP316-A
GR03	SP316	A			Soil	0.5	0.6	GR03-SP316-A
GR03	SP316	B			Soil	0	0.1	GR03-SP316-B
GR03	SP316	B			Soil	0.3	0.4	GR03-SP316-B
GR03	SP316	B		-S	Water	0	0.5	GR03-SP316-B-S
GR03	SP316	B			Soil	0.4	0.5	GR03-SP316-B
GR03	SP316	C	-S1	-A1	Soil	0	0.1	GR03-SP316-C-S1-A1
GR03	SP316	C	-S1	-A2	Soil	0	0.101	GR03-SP316-C-S1-A2
GR03	SP316	C	-S2	-A1	Soil	0	0.1	GR03-SP316-C-S2-A1
GR03	SP316	C	-S2	-A2	Soil	0	0.101	GR03-SP316-C-S2-A2
GR03	SP316	C	-S1		Soil	0.2	0.3	GR03-SP316-C-S1
GR03	SP316	C	-S1		Soil	0.4	0.5	GR03-SP316-C-S1
GR03	SP316	D			Soil	0.1	0.2	GR03-SP316-D
GR03	SP316	D		-PFOA	Soil	0.1	0.2	GR03-SP316-D-PFOA
GR03	SP316	D			Soil	0.3	0.4	GR03-SP316-D
GR03	SP316	D		-T	Water	0.1	0.4	GR03-SP316-D-T
GR03	SP316	D			Soil	0.5	0.6	GR03-SP316-D
GR03	SP316	E			Soil	0.1	0.2	GR03-SP316-E
GR03	SP316	E			Soil	0.2	0.3	GR03-SP316-E
GR03	SP316	E		-PFOA	Soil	0.2	0.3	GR03-SP316-E-PFOA
GR03	SP316	E			Soil	0.5	0.6	GR03-SP316-E
GR03	SP317	A			Soil	0	0.1	GR03-SP317-A
GR03	SP317	A			Soil	0.2	0.3	GR03-SP317-A
GR03	SP317	A		-PFOA	Soil	0.2	0.3	GR03-SP317-A-PFOA
GR03	SP317	A			Soil	0.4	0.5	GR03-SP317-A
GR03	SP317	B	-S1		Soil	0.1	0.2	GR03-SP317-B-S1
GR03	SP317	B	-S1	-A1	Soil	0.3	0.4	GR03-SP317-B-S1-A1
GR03	SP317	B	-S1	-A2	Soil	0.3	0.401	GR03-SP317-B-S1-A2
GR03	SP317	B	-S2	-A1	Soil	0.3	0.4	GR03-SP317-B-S2-A1
GR03	SP317	B	-S2	-A2	Soil	0.3	0.401	GR03-SP317-B-S2-A2
GR03	SP317	B	-S1		Soil	0.5	0.6	GR03-SP317-B-S1
GR03	SP317	B	-S1	-S	Water	0.5	0.6	GR03-SP317-B-S1-S
GR03	SP317	C			Soil	0	0.1	GR03-SP317-C
GR03	SP317	C			Soil	0.3	0.4	GR03-SP317-C
GR03	SP317	C			Soil	0.4	0.5	GR03-SP317-C
GR03	SP317	D			Soil	0	0.1	GR03-SP317-D
GR03	SP317	D		-PFOA	Soil	0	0.1	GR03-SP317-D-PFOA
GR03	SP317	D			Soil	0.2	0.3	GR03-SP317-D
GR03	SP317	D			Soil	0.4	0.5	GR03-SP317-D
GR03	SP317	E			Soil	0	0.1	GR03-SP317-E
GR03	SP317	E			Soil	0.3	0.4	GR03-SP317-E
GR03	SP317	E		-T	Water	0.3	0.4	GR03-SP317-E-T
GR03	SP317	E			Soil	0.4	0.5	GR03-SP317-E
GR03	SP318	A			Soil	0.1	0.2	GR03-SP318-A
GR03	SP318	A		-PFOA	Soil	0.1	0.2	GR03-SP318-A-PFOA
GR03	SP318	A			Soil	0.2	0.3	GR03-SP318-A
GR03	SP318	A			Soil	0.5	0.6	GR03-SP318-A
GR03	SP318	B	-S1		Soil	0	0.1	GR03-SP318-B-S1
GR03	SP318	B	-S1	-A1	Soil	0.2	0.3	GR03-SP318-B-S1-A1
GR03	SP318	B	-S1	-A2	Soil	0.2	0.301	GR03-SP318-B-S1-A2
GR03	SP318	B	-S2	-A1	Soil	0.2	0.3	GR03-SP318-B-S2-A1
GR03	SP318	B	-S2	-A2	Soil	0.2	0.301	GR03-SP318-B-S2-A2
GR03	SP318	B	-S1		Soil	0.4	0.5	GR03-SP318-B-S1
GR03	SP318	B	-S1	-S	Water	0.4	0.5	GR03-SP318-B-S1-S
GR03	SP318	C			Soil	0.1	0.2	GR03-SP318-C
GR03	SP318	C			Soil	0.3	0.4	GR03-SP318-C
GR03	SP318	C			Soil	0.5	0.6	GR03-SP318-C
GR03	SP318	D			Soil	0	0.1	GR03-SP318-D

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP318	D		-T	Water	0	0.1	GR03-SP318-D-T
GR03	SP318	D			Soil	0.3	0.4	GR03-SP318-D
GR03	SP318	D			Soil	0.4	0.5	GR03-SP318-D
GR03	SP318	E			Soil	0.1	0.2	GR03-SP318-E
GR03	SP318	E			Soil	0.2	0.3	GR03-SP318-E
GR03	SP318	E			Soil	0.5	0.6	GR03-SP318-E
GR03	SP318	E			Water	0.5	0.6	GR03-SP318-E
GR03	SP318	E		-PFOA	Soil	0.5	0.6	GR03-SP318-E-PFOA
GR03	SP318	F			Soil	0	0.1	GR03-SP318-F
GR03	SP318	F			Soil	0.2	0.3	GR03-SP318-F
GR03	SP318	F			Soil	0.4	0.5	GR03-SP318-F
GR03	SP318	G			Soil	0.1	0.2	GR03-SP318-G
GR03	SP318	G			Soil	0.3	0.4	GR03-SP318-G
GR03	SP318	G			Soil	0.5	0.6	GR03-SP318-G
GR03	SP319	A			Soil	0	0.1	GR03-SP319-A
GR03	SP319	A			Soil	0.3	0.4	GR03-SP319-A
GR03	SP319	A		-S	Water	0.3	0.4	GR03-SP319-A-S
GR03	SP319	A			Soil	0.4	0.5	GR03-SP319-A
GR03	SP319	B			Soil	0.1	0.2	GR03-SP319-B
GR03	SP319	B		-PFOA	Soil	0.1	0.2	GR03-SP319-B-PFOA
GR03	SP319	B			Soil	0.2	0.3	GR03-SP319-B
GR03	SP319	B			Soil	0.5	0.6	GR03-SP319-B
GR03	SP319	B		-T	Water	0.5	0.6	GR03-SP319-B-T
GR03	SP319	C	-S1		Soil	0	0.1	GR03-SP319-C-S1
GR03	SP319	C	-S1	-A1	Soil	0.2	0.3	GR03-SP319-C-S1-A1
GR03	SP319	C	-S1	-A2	Soil	0.2	0.301	GR03-SP319-C-S1-A2
GR03	SP319	C	-S2	-A1	Soil	0.2	0.3	GR03-SP319-C-S2-A1
GR03	SP319	C	-S2	-A2	Soil	0.2	0.301	GR03-SP319-C-S2-A2
GR03	SP319	C	-S1		Soil	0.4	0.5	GR03-SP319-C-S1
GR03	SP319	D			Soil	0.1	0.2	GR03-SP319-D
GR03	SP319	D			Soil	0.3	0.4	GR03-SP319-D
GR03	SP319	D			Soil	0.5	0.6	GR03-SP319-D
GR03	SP319	E			Soil	0	0.1	GR03-SP319-E
GR03	SP319	E			Soil	0.3	0.4	GR03-SP319-E
GR03	SP319	E			Soil	0.4	0.5	GR03-SP319-E
GR03	SP319	E		-S	Water	0.4	0.5	GR03-SP319-E-S
GR03	SP319	F			Soil	0.1	0.2	GR03-SP319-F
GR03	SP319	F			Soil	0.2	0.3	GR03-SP319-F
GR03	SP319	F		-PFOA	Soil	0.2	0.3	GR03-SP319-F-PFOA
GR03	SP319	F			Soil	0.5	0.6	GR03-SP319-F
GR03	SP319	G			Soil	0	0.1	GR03-SP319-G
GR03	SP319	G		-T	Water	0	0.1	GR03-SP319-G-T
GR03	SP319	G			Soil	0.2	0.3	GR03-SP319-G
GR03	SP319	G			Soil	0.4	0.5	GR03-SP319-G
GR03	SP320	A	-S1		Soil	0.1	0.2	GR03-SP320-A-S1
GR03	SP320	A	-S1		Soil	0.3	0.4	GR03-SP320-A-S1
GR03	SP320	A	-S1	-A1	Soil	0.5	0.6	GR03-SP320-A-S1-A1
GR03	SP320	A	-S1	-A2	Soil	0.5	0.601	GR03-SP320-A-S1-A2
GR03	SP320	A	-S2	-A1	Soil	0.5	0.6	GR03-SP320-A-S2-A1
GR03	SP320	A	-S2	-A2	Soil	0.5	0.601	GR03-SP320-A-S2-A2
GR03	SP320	B			Soil	0	0.1	GR03-SP320-B
GR03	SP320	B			Soil	0.3	0.4	GR03-SP320-B
GR03	SP320	B		-PFOA	Soil	0.3	0.4	GR03-SP320-B-PFOA
GR03	SP320	B			Soil	0.4	0.5	GR03-SP320-B
GR03	SP320	C			Soil	0.1	0.2	GR03-SP320-C
GR03	SP320	C			Soil	0.2	0.3	GR03-SP320-C
GR03	SP320	C		-S	Water	0.2	0.3	GR03-SP320-C-S
GR03	SP320	C			Soil	0.5	0.6	GR03-SP320-C
GR03	SP320	D			Soil	0	0.1	GR03-SP320-D
GR03	SP320	D			Soil	0.2	0.3	GR03-SP320-D
GR03	SP320	D			Soil	0.4	0.5	GR03-SP320-D
GR03	SP320	E			Soil	0.1	0.2	GR03-SP320-E
GR03	SP320	E		-PFOA	Soil	0.1	0.2	GR03-SP320-E-PFOA

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP320	E			Soil	0.3	0.4	GR03-SP320-E
GR03	SP320	E		-T	Water	0.3	0.4	GR03-SP320-E-T
GR03	SP320	E			Soil	0.5	0.6	GR03-SP320-E
GR03	SP320	F			Soil	0	0.1	GR03-SP320-F
GR03	SP320	F			Soil	0.3	0.4	GR03-SP320-F
GR03	SP320	F			Soil	0.4	0.5	GR03-SP320-F
GR03	SP320	G			Soil	0.1	0.2	GR03-SP320-G
GR03	SP320	G			Soil	0.2	0.3	GR03-SP320-G
GR03	SP320	G		-T	Water	0.2	0.3	GR03-SP320-G-T
GR03	SP320	G			Soil	0.5	0.6	GR03-SP320-G
GR03	SP321	A			Soil	0	0.1	GR03-SP321-A
GR03	SP321	A			Soil	0.2	0.3	GR03-SP321-A
GR03	SP321	A		-PFOA	Soil	0.2	0.3	GR03-SP321-A-PFOA
GR03	SP321	A			Soil	0.4	0.5	GR03-SP321-A
GR03	SP321	B			Soil	0.1	0.2	GR03-SP321-B
GR03	SP321	B			Soil	0.3	0.4	GR03-SP321-B
GR03	SP321	B			Soil	0.5	0.6	GR03-SP321-B
GR03	SP321	C			Soil	0	0.1	GR03-SP321-C
GR03	SP321	C			Soil	0.3	0.4	GR03-SP321-C
GR03	SP321	C			Soil	0.4	0.5	GR03-SP321-C
GR03	SP321	D			Soil	0.1	0.2	GR03-SP321-D
GR03	SP321	D			Soil	0.2	0.3	GR03-SP321-D
GR03	SP321	D			Soil	0.5	0.6	GR03-SP321-D
GR03	SP321	D		-PFOA	Soil	0.5	0.6	GR03-SP321-D-PFOA
GR03	SP321	E	-S1	-A1	Soil	0	0.1	GR03-SP321-E-S1-A1
GR03	SP321	E	-S1	-A2	Soil	0	0.101	GR03-SP321-E-S1-A2
GR03	SP321	E	-S2	-A1	Soil	0	0.1	GR03-SP321-E-S2-A1
GR03	SP321	E	-S2	-A2	Soil	0	0.101	GR03-SP321-E-S2-A2
GR03	SP321	E	-S1		Soil	0.2	0.3	GR03-SP321-E-S1
GR03	SP321	E	-S1		Soil	0.4	0.5	GR03-SP321-E-S1
GR03	SP321	F			Soil	0.1	0.2	GR03-SP321-F
GR03	SP321	F			Soil	0.3	0.4	GR03-SP321-F
GR03	SP321	F			Soil	0.5	0.6	GR03-SP321-F
GR03	SP321	G			Soil	0	0.1	GR03-SP321-G
GR03	SP321	G		-T	Water	0	0.1	GR03-SP321-G-T
GR03	SP321	G			Soil	0.3	0.4	GR03-SP321-G
GR03	SP321	G			Soil	0.4	0.5	GR03-SP321-G
GR03	SP322	A			Soil	0.1	0.2	GR03-SP322-A
GR03	SP322	A			Soil	0.2	0.3	GR03-SP322-A
GR03	SP322	A			Soil	0.5	0.6	GR03-SP322-A
GR03	SP322	A		-S	Water	0	0.6	GR03-SP322-A-S
GR03	SP322	B	-S1	-A1	Soil	0	0.1	GR03-SP322-B-S1-A1
GR03	SP322	B	-S1	-A2	Soil	0	0.101	GR03-SP322-B-S1-A2
GR03	SP322	B	-S2	-A1	Soil	0	0.1	GR03-SP322-B-S2-A1
GR03	SP322	B	-S2	-A2	Soil	0	0.101	GR03-SP322-B-S2-A2
GR03	SP322	B	-S1		Soil	0.2	0.3	GR03-SP322-B-S1
GR03	SP322	B	-S1		Soil	0.4	0.5	GR03-SP322-B-S1
GR03	SP322	C			Soil	0	0.1	GR03-SP322-C
GR03	SP322	C		-PFOA	Soil	0	0.1	GR03-SP322-C-PFOA
GR03	SP322	C			Soil	0.3	0.4	GR03-SP322-C
GR03	SP322	C			Soil	0.4	0.5	GR03-SP322-C
GR03	SP322	C		-T	Water	0.4	0.5	GR03-SP322-C-T
GR03	SP323	A			Soil	0	0.1	GR03-SP323-A
GR03	SP323	A		-PFOA	Soil	0	0.1	GR03-SP323-A-PFOA
GR03	SP323	A			Soil	0.3	0.4	GR03-SP323-A
GR03	SP323	A			Soil	0.4	0.5	GR03-SP323-A
GR03	SP323	B			Soil	0	0.1	GR03-SP323-B
GR03	SP323	B			Soil	0.2	0.3	GR03-SP323-B
GR03	SP323	B		-S	Water	0.2	0.3	GR03-SP323-B-S
GR03	SP323	B			Soil	0.4	0.5	GR03-SP323-B
GR03	SP323	C			Soil	0.1	0.2	GR03-SP323-C
GR03	SP323	C			Soil	0.3	0.4	GR03-SP323-C
GR03	SP323	C		-PFOA	Soil	0.3	0.4	GR03-SP323-C-PFOA

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP323	C			Soil	0.5	0.6	GR03-SP323-C
GR03	SP323	D			Soil	0	0.1	GR03-SP323-D
GR03	SP323	D			Soil	0.3	0.4	GR03-SP323-D
GR03	SP323	D		-PFOA	Soil	0.3	0.4	GR03-SP323-D-PFOA
GR03	SP323	D		-T	Water	0.3	0.4	GR03-SP323-D-T
GR03	SP323	D			Soil	0.4	0.5	GR03-SP323-D
GR03	SP323	E	-S1		Soil	0.1	0.2	GR03-SP323-E-S1
GR03	SP323	E	-S1		Soil	0.2	0.3	GR03-SP323-E-S1
GR03	SP323	E	-S1	-A1	Soil	0.5	0.6	GR03-SP323-E-S1-A1
GR03	SP323	E	-S1	-A2	Soil	0.5	0.601	GR03-SP323-E-S1-A2
GR03	SP323	E	-S2	-A1	Soil	0.5	0.6	GR03-SP323-E-S2-A1
GR03	SP323	E	-S2	-A2	Soil	0.5	0.601	GR03-SP323-E-S2-A2
GR03	SP324	A	-S1		Soil	0	0.1	GR03-SP324-A-S1
GR03	SP324	A	-S1	-S	Water	0	0.5	GR03-SP324-A-S1-S
GR03	SP324	A	-S1		Soil	0.3	0.4	GR03-SP324-A-S1
GR03	SP324	A	-S1	-A1	Soil	0.4	0.5	GR03-SP324-A-S1-A1
GR03	SP324	A	-S1	-A2	Soil	0.4	0.5	GR03-SP324-A-S1-A2
GR03	SP324	A	-S2	-A1	Soil	0.4	0.5	GR03-SP324-A-S2-A1
GR03	SP324	A	-S2	-A2	Soil	0.4	0.5	GR03-SP324-A-S2-A2
GR03	SP324	B			Soil	0.1	0.2	GR03-SP324-B
GR03	SP324	B		-PFOA	Soil	0.1	0.2	GR03-SP324-B-PFOA
GR03	SP324	B			Soil	0.2	0.3	GR03-SP324-B
GR03	SP324	B			Soil	0.5	0.6	GR03-SP324-B
GR03	SP324	B		-T	Water	0.5	0.6	GR03-SP324-B-T
GR03	SP324	C			Soil	0	0.1	GR03-SP324-C
GR03	SP324	C			Soil	0.2	0.3	GR03-SP324-C
GR03	SP324	C			Soil	0.4	0.5	GR03-SP324-C
GR03	SP324	C		-PFOA	Soil	0.4	0.5	GR03-SP324-C-PFOA
GR03	SP324	D			Soil	0	0.1	GR03-SP324-D
GR03	SP324	D		-S	Water	0	0.1	GR03-SP324-D-S
GR03	SP324	D			Soil	0.3	0.4	GR03-SP324-D
GR03	SP324	D			Soil	0.4	0.5	GR03-SP324-D
GR03	SP324	E			Soil	0.1	0.2	GR03-SP324-E
GR03	SP324	E			Soil	0.2	0.3	GR03-SP324-E
GR03	SP324	E		-PFOA	Soil	0.2	0.3	GR03-SP324-E-PFOA
GR03	SP324	E			Soil	0.5	0.6	GR03-SP324-E
GR03	SP325	A			Soil	0	0.1	GR03-SP325-A
GR03	SP325	A			Soil	0.2	0.3	GR03-SP325-A
GR03	SP325	A		-T	Water	0.2	0.3	GR03-SP325-A-T
GR03	SP325	A			Soil	0.4	0.5	GR03-SP325-A
GR03	SP325	B			Soil	0.1	0.2	GR03-SP325-B
GR03	SP325	B			Soil	0.3	0.4	GR03-SP325-B
GR03	SP325	B			Soil	0.5	0.6	GR03-SP325-B
GR03	SP325	B		-PFOA	Soil	0.5	0.6	GR03-SP325-B-PFOA
GR03	SP325	C			Soil	0	0.1	GR03-SP325-C
GR03	SP325	C			Soil	0.3	0.4	GR03-SP325-C
GR03	SP325	C			Soil	0.4	0.5	GR03-SP325-C
GR03	SP325	C		-S	Water	0.4	0.5	GR03-SP325-C-S
GR03	SP325	D	-S1	-A1	Soil	0.1	0.2	GR03-SP325-D-S1-A1
GR03	SP325	D	-S1	-A2	Soil	0.1	0.201	GR03-SP325-D-S1-A2
GR03	SP325	D	-S2	-A1	Soil	0.1	0.2	GR03-SP325-D-S2-A1
GR03	SP325	D	-S2	-A2	Soil	0.1	0.201	GR03-SP325-D-S2-A2
GR03	SP325	D	-S1		Soil	0.2	0.3	GR03-SP325-D-S1
GR03	SP325	D	-S1		Soil	0.5	0.6	GR03-SP325-D-S1
GR03	SP325	E			Soil	0	0.1	GR03-SP325-E
GR03	SP325	E		-PFOA	Soil	0	0.1	GR03-SP325-E-PFOA
GR03	SP325	E			Soil	0.2	0.3	GR03-SP325-E
GR03	SP325	E			Soil	0.4	0.5	GR03-SP325-E
GR03	SP325	F			Soil	0.1	0.2	GR03-SP325-F
GR03	SP325	F		-PFOA	Soil	0.1	0.2	GR03-SP325-F-PFOA
GR03	SP325	F			Soil	0.3	0.4	GR03-SP325-F
GR03	SP325	F			Soil	0.5	0.6	GR03-SP325-F
GR03	SP325	G			Soil	0	0.1	GR03-SP325-G

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP325	G			Soil	0.3	0.4	GR03-SP325-G
GR03	SP325	G			Soil	0.4	0.5	GR03-SP325-G
GR03	SP326	A			Soil	0.1	0.2	GR03-SP326-A
GR03	SP326	A			Soil	0.2	0.3	GR03-SP326-A
GR03	SP326	A			Soil	0.5	0.6	GR03-SP326-A
GR03	SP326	A		-PFOA	Soil	0.5	0.6	GR03-SP326-A-PFOA
GR03	SP326	B			Soil	0	0.1	GR03-SP326-B
GR03	SP326	B			Soil	0.2	0.3	GR03-SP326-B
GR03	SP326	B			Soil	0.4	0.5	GR03-SP326-B
GR03	SP326	C	-S1		Soil	0.1	0.2	GR03-SP326-C-S1
GR03	SP326	C	-S1	-A1	Soil	0.3	0.4	GR03-SP326-C-S1-A1
GR03	SP326	C	-S1	-A2	Soil	0.3	0.401	GR03-SP326-C-S1-A2
GR03	SP326	C	-S2	-A1	Soil	0.3	0.4	GR03-SP326-C-S2-A1
GR03	SP326	C	-S2	-A2	Soil	0.3	0.401	GR03-SP326-C-S2-A2
GR03	SP326	C	-S1		Soil	0.5	0.6	GR03-SP326-C-S1
GR03	SP326	C	-S1	-S	Water	0.5	0.6	GR03-SP326-C-S1-S
GR03	SP326	D			Soil	0	0.1	GR03-SP326-D
GR03	SP326	D			Soil	0.3	0.4	GR03-SP326-D
GR03	SP326	D			Soil	0.4	0.5	GR03-SP326-D
GR03	SP326	E			Soil	0.1	0.2	GR03-SP326-E
GR03	SP326	E			Soil	0.2	0.3	GR03-SP326-E
GR03	SP326	E			Soil	0.5	0.6	GR03-SP326-E
GR03	SP326	E		-PFOA	Soil	0.5	0.6	GR03-SP326-E-PFOA
GR03	SP326	F			Soil	0	0.1	GR03-SP326-F
GR03	SP326	F			Soil	0.2	0.3	GR03-SP326-F
GR03	SP326	F		-PFOA	Soil	0.2	0.3	GR03-SP326-F-PFOA
GR03	SP326	F			Soil	0.4	0.5	GR03-SP326-F
GR03	SP326	G			Soil	0.1	0.2	GR03-SP326-G
GR03	SP326	G			Soil	0.3	0.4	GR03-SP326-G
GR03	SP326	G		-T	Water	0.3	0.4	GR03-SP326-G-T
GR03	SP326	G			Soil	0.5	0.6	GR03-SP326-G
GR03	SP327	A			Soil	0	0.1	GR03-SP327-A
GR03	SP327	A			Soil	0.3	0.4	GR03-SP327-A
GR03	SP327	A			Soil	0.4	0.5	GR03-SP327-A
GR03	SP327	B	-S1		Soil	0.1	0.2	GR03-SP327-B-S1
GR03	SP327	B	-S1	-A1	Soil	0.2	0.3	GR03-SP327-B-S1-A1
GR03	SP327	B	-S1	-A2	Soil	0.2	0.301	GR03-SP327-B-S1-A2
GR03	SP327	B	-S2	-A1	Soil	0.2	0.3	GR03-SP327-B-S2-A1
GR03	SP327	B	-S2	-A2	Soil	0.2	0.301	GR03-SP327-B-S2-A2
GR03	SP327	B	-S1		Soil	0.5	0.6	GR03-SP327-B-S1
GR03	SP327	C			Soil	0	0.1	GR03-SP327-C
GR03	SP327	C			Soil	0.2	0.3	GR03-SP327-C
GR03	SP327	C		-PFOA	Soil	0.2	0.3	GR03-SP327-C-PFOA
GR03	SP327	C			Soil	0.4	0.5	GR03-SP327-C
GR03	SP327	C		-S	Water	0.4	0.5	GR03-SP327-C-S
GR03	SP327	D			Soil	0.1	0.2	GR03-SP327-D
GR03	SP327	D			Soil	0.2	0.3	GR03-SP327-D
GR03	SP327	E			Soil	0	0.1	GR03-SP327-E
GR03	SP327	E			Soil	0.3	0.4	GR03-SP327-E
GR03	SP327	E		-PFOA	Soil	0.3	0.4	GR03-SP327-E-PFOA
GR03	SP327	E			Soil	0.4	0.5	GR03-SP327-E
GR03	SP328	A			Soil	0.1	0.2	GR03-SP328-A
GR03	SP328	A		-T	Water	0.1	0.2	GR03-SP328-A-T
GR03	SP328	A			Soil	0.3	0.4	GR03-SP328-A
GR03	SP328	A			Soil	0.5	0.6	GR03-SP328-A
GR03	SP328	B			Soil	0	0.1	GR03-SP328-B
GR03	SP328	B		-PFOA	Soil	0	0.1	GR03-SP328-B-PFOA
GR03	SP328	B			Soil	0.3	0.4	GR03-SP328-B
GR03	SP328	B			Soil	0.4	0.5	GR03-SP328-B
GR03	SP328	C			Soil	0.1	0.2	GR03-SP328-C
GR03	SP328	C			Soil	0.2	0.3	GR03-SP328-C
GR03	SP328	C			Soil	0.5	0.6	GR03-SP328-C
GR03	SP328	C		-PFOA	Soil	0.5	0.6	GR03-SP328-C-PFOA

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP328	D	-S1	-A1	Soil	0	0.1	GR03-SP328-D-S1-A1
GR03	SP328	D	-S1	-A2	Soil	0	0.101	GR03-SP328-D-S1-A2
GR03	SP328	D	-S2	-A1	Soil	0	0.1	GR03-SP328-D-S2-A1
GR03	SP328	D	-S2	-A2	Soil	0	0.101	GR03-SP328-D-S2-A2
GR03	SP328	D	-S1		Soil	0.2	0.3	GR03-SP328-D-S1
GR03	SP328	D	-S1		Soil	0.4	0.5	GR03-SP328-D-S1
GR03	SP328	E			Soil	0.1	0.2	GR03-SP328-E
GR03	SP328	E		-S	Water	0.1	0.2	GR03-SP328-E-S
GR03	SP328	E			Soil	0.3	0.4	GR03-SP328-E
GR03	SP328	E			Soil	0.5	0.6	GR03-SP328-E
GR03	SP328	F			Soil	0	0.1	GR03-SP328-F
GR03	SP328	F		-PFOA	Soil	0	0.1	GR03-SP328-F-PFOA
GR03	SP328	F			Soil	0.3	0.4	GR03-SP328-F
GR03	SP328	F			Soil	0.4	0.5	GR03-SP328-F
GR03	SP328	G			Soil	0.1	0.2	GR03-SP328-G
GR03	SP328	G			Soil	0.2	0.3	GR03-SP328-G
GR03	SP328	G			Soil	0.5	0.6	GR03-SP328-G
GR03	SP329	B			Soil	0.2	0.3	GR03-SP329-B
GR03	SP329	A			Soil	0	0.1	GR03-SP329-A
GR03	SP329	C			Soil	0.1	0.2	GR03-SP329-C
GR03	SP330	A			Soil	0.1	0.2	GR03-SP330-A
GR03	SP330	A			Soil	0.2	0.3	GR03-SP330-A
GR03	SP330	A		-S	Water	0.2	0.3	GR03-SP330-A-S
GR03	SP330	A			Soil	0.5	0.6	GR03-SP330-A
GR03	SP330	B	-S1	-A1	Soil	0	0.1	GR03-SP330-B-S1-A1
GR03	SP330	B	-S1	-A2	Soil	0	0.101	GR03-SP330-B-S1-A2
GR03	SP330	B	-S2	-A1	Soil	0	0.1	GR03-SP330-B-S2-A1
GR03	SP330	B	-S2	-A2	Soil	0	0.101	GR03-SP330-B-S2-A2
GR03	SP330	B	-S1		Soil	0.2	0.3	GR03-SP330-B-S1
GR03	SP330	B	-S1		Soil	0.4	0.5	GR03-SP330-B-S1
GR03	SP330	C			Soil	0.1	0.2	GR03-SP330-C
GR03	SP330	C			Soil	0.3	0.4	GR03-SP330-C
GR03	SP330	C			Soil	0.5	0.6	GR03-SP330-C
GR03	SP330	D			Soil	0	0.1	GR03-SP330-D
GR03	SP330	D		-PFOA	Soil	0	0.1	GR03-SP330-D-PFOA
GR03	SP330	D			Soil	0.3	0.4	GR03-SP330-D
GR03	SP330	D			Soil	0.4	0.5	GR03-SP330-D
GR03	SP330	E			Soil	0.1	0.2	GR03-SP330-E
GR03	SP330	E			Soil	0.2	0.3	GR03-SP330-E
GR03	SP330	E			Soil	0.5	0.6	GR03-SP330-E
GR03	SP330	F			Soil	0	0.1	GR03-SP330-F
GR03	SP330	F			Soil	0.2	0.3	GR03-SP330-F
GR03	SP330	F			Soil	0.4	0.5	GR03-SP330-F
GR03	SP330	F		-T	Water	0.4	0.5	GR03-SP330-F-T
GR03	SP330	G			Soil	0.1	0.2	GR03-SP330-G
GR03	SP330	G			Soil	0.3	0.4	GR03-SP330-G
GR03	SP330	G			Soil	0.5	0.6	GR03-SP330-G
GR03	SP330	G		-PFOA	Soil	0.5	0.6	GR03-SP330-G-PFOA
GR03	SP331	A	-S1		Soil	0	0.1	GR03-SP331-A-S1
GR03	SP331	A	-S1	-A1	Soil	0.3	0.4	GR03-SP331-A-S1-A1
GR03	SP331	A	-S1	-A2	Soil	0.3	0.401	GR03-SP331-A-S1-A2
GR03	SP331	A	-S2	-A1	Soil	0.3	0.4	GR03-SP331-A-S2-A1
GR03	SP331	A	-S2	-A2	Soil	0.3	0.401	GR03-SP331-A-S2-A2
GR03	SP331	A	-S1		Soil	0.4	0.5	GR03-SP331-A-S1
GR03	SP331	B			Soil	0.1	0.2	GR03-SP331-B
GR03	SP331	B			Soil	0.2	0.3	GR03-SP331-B
GR03	SP331	B			Soil	0.5	0.6	GR03-SP331-B
GR03	SP331	B		-S	Water	0.5	0.6	GR03-SP331-B-S
GR03	SP331	C			Soil	0	0.1	GR03-SP331-C
GR03	SP331	C			Soil	0.2	0.3	GR03-SP331-C
GR03	SP331	C		-PFOA	Soil	0.2	0.3	GR03-SP331-C-PFOA
GR03	SP331	C			Soil	0.4	0.5	GR03-SP331-C
GR03	SP331	D			Soil	0.1	0.2	GR03-SP331-D

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP331	D			Soil	0.3	0.4	GR03-SP331-D
GR03	SP331	D			Soil	0.5	0.6	GR03-SP331-D
GR03	SP331	E			Soil	0	0.1	GR03-SP331-E
GR03	SP331	E			Soil	0.3	0.4	GR03-SP331-E
GR03	SP331	E			Soil	0.4	0.5	GR03-SP331-E
GR03	SP331	F			Soil	0.1	0.2	GR03-SP331-F
GR03	SP331	F		-T	Water	0.1	0.2	GR03-SP331-F-T
GR03	SP331	F			Soil	0.2	0.3	GR03-SP331-F
GR03	SP331	F		-PFOA	Soil	0.2	0.3	GR03-SP331-F-PFOA
GR03	SP331	F			Soil	0.5	0.6	GR03-SP331-F
GR03	SP331	G			Soil	0	0.1	GR03-SP331-G
GR03	SP331	G			Soil	0.2	0.3	GR03-SP331-G
GR03	SP331	G			Soil	0.4	0.5	GR03-SP331-G
GR03	SP332	A			Soil	0.1	0.2	GR03-SP332-A
GR03	SP332	A		-PFOA	Soil	0.1	0.2	GR03-SP332-A-PFOA
GR03	SP332	A		-S	Water	0.1	0.2	GR03-SP332-A-S
GR03	SP332	A			Soil	0.3	0.4	GR03-SP332-A
GR03	SP332	A			Soil	0.5	0.6	GR03-SP332-A
GR03	SP332	B	-S1		Soil	0	0.1	GR03-SP332-B-S1
GR03	SP332	B	-S1	-A1	Soil	0.3	0.4	GR03-SP332-B-S1-A1
GR03	SP332	B	-S1	-A2	Soil	0.3	0.401	GR03-SP332-B-S1-A2
GR03	SP332	B	-S2	-A1	Soil	0.3	0.4	GR03-SP332-B-S2-A1
GR03	SP332	B	-S2	-A2	Soil	0.3	0.401	GR03-SP332-B-S2-A2
GR03	SP332	B	-S1		Soil	0.4	0.5	GR03-SP332-B-S1
GR03	SP332	C			Soil	0.1	0.2	GR03-SP332-C
GR03	SP332	C			Soil	0.2	0.3	GR03-SP332-C
GR03	SP332	C			Soil	0.5	0.6	GR03-SP332-C
GR03	SP332	D			Soil	0	0.1	GR03-SP332-D
GR03	SP332	D			Soil	0.2	0.3	GR03-SP332-D
GR03	SP332	D			Soil	0.4	0.5	GR03-SP332-D
GR03	SP332	D		-PFOA	Soil	0.4	0.5	GR03-SP332-D-PFOA
GR03	SP332	E			Soil	0.1	0.2	GR03-SP332-E
GR03	SP332	E			Soil	0.3	0.4	GR03-SP332-E
GR03	SP332	E			Soil	0.5	0.6	GR03-SP332-E
GR03	SP332	F			Soil	0	0.1	GR03-SP332-F
GR03	SP332	F			Soil	0.3	0.4	GR03-SP332-F
GR03	SP332	F		-T	Water	0.3	0.4	GR03-SP332-F-T
GR03	SP332	F			Soil	0.4	0.5	GR03-SP332-F
GR03	SP332	G			Soil	0.1	0.2	GR03-SP332-G
GR03	SP332	G			Soil	0.2	0.3	GR03-SP332-G
GR03	SP332	G			Soil	0.5	0.6	GR03-SP332-G
GR03	SP332	G		-PFOA	Soil	0.5	0.6	GR03-SP332-G-PFOA
GR03	SP333	A			Soil	0	0.1	GR03-SP333-A
GR03	SP333	A			Soil	0.2	0.3	GR03-SP333-A
GR03	SP333	A			Soil	0.4	0.5	GR03-SP333-A
GR03	SP333	A		-PFOA	Soil	0.4	0.5	GR03-SP333-A-PFOA
GR03	SP333	B	-S1		Soil	0.3	0.4	GR03-SP333-B-S1
GR03	SP333	B	-S1	-A1	Soil	0.5	0.6	GR03-SP333-B-S1-A1
GR03	SP333	B	-S1	-A2	Soil	0.5	0.601	GR03-SP333-B-S1-A2
GR03	SP333	B	-S2	-A1	Soil	0.5	0.6	GR03-SP333-B-S2-A1
GR03	SP333	B	-S2	-A2	Soil	0.5	0.601	GR03-SP333-B-S2-A2
GR03	SP333	C			Soil	0	0.1	GR03-SP333-C
GR03	SP333	C			Soil	0.3	0.4	GR03-SP333-C
GR03	SP333	C			Soil	0.4	0.5	GR03-SP333-C
GR03	SP333	C		-S	Water	0.4	0.5	GR03-SP333-C-S
GR03	SP333	D			Soil	0.1	0.2	GR03-SP333-D
GR03	SP333	D			Soil	0.2	0.3	GR03-SP333-D
GR03	SP333	D			Soil	0.5	0.6	GR03-SP333-D
GR03	SP333	E			Soil	0	0.1	GR03-SP333-E
GR03	SP333	E		-T	Water	0	0.1	GR03-SP333-E-T
GR03	SP333	E			Soil	0.2	0.3	GR03-SP333-E

Land at Thornton-Cleveleys
Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP333	E			Soil	0.4	0.5	GR03-SP333-E
GR03	SP333	F			Soil	0.1	0.2	GR03-SP333-F
GR03	SP333	F		-PFOA	Soil	0.1	0.2	GR03-SP333-F-PFOA
GR03	SP333	F			Soil	0.3	0.4	GR03-SP333-F
GR03	SP333	F			Soil	0.5	0.6	GR03-SP333-F
GR03	SP333	G			Soil	0	0.1	GR03-SP333-G
GR03	SP333	G			Soil	0.3	0.4	GR03-SP333-G
GR03	SP333	G			Soil	0.4	0.5	GR03-SP333-G
GR03	SP333	G		-S	Water	0.4	0.5	GR03-SP333-G-S
GR03	SP334	A	-S1		Soil	0.1	0.2	GR03-SP334-A-S1
GR03	SP334	A	-S1	-A1	Soil	0.2	0.3	GR03-SP334-A-S1-A1
GR03	SP334	A	-S1	-A2	Soil	0.2	0.301	GR03-SP334-A-S1-A2
GR03	SP334	A	-S2	-A1	Soil	0.2	0.3	GR03-SP334-A-S2-A1
GR03	SP334	A	-S2	-A2	Soil	0.2	0.301	GR03-SP334-A-S2-A2
GR03	SP334	A	-S1		Soil	0.5	0.6	GR03-SP334-A-S1
GR03	SP334	B			Soil	0	0.1	GR03-SP334-B
GR03	SP334	B		-PFOA	Soil	0.2	0.3	GR03-SP334-B-PFOA
GR03	SP334	B			Soil	0.2	0.3	GR03-SP334-B
GR03	SP334	B			Soil	0.4	0.5	GR03-SP334-B
GR03	SP334	C			Soil	0.1	0.2	GR03-SP334-C
GR03	SP334	C			Soil	0.3	0.4	GR03-SP334-C
GR03	SP334	C			Soil	0.5	0.6	GR03-SP334-C
GR03	SP334	D			Soil	0	0.1	GR03-SP334-D
GR03	SP334	D			Soil	0.3	0.4	GR03-SP334-D
GR03	SP334	D			Soil	0.4	0.5	GR03-SP334-D
GR03	SP334	E			Soil	0.1	0.2	GR03-SP334-E
GR03	SP334	E			Soil	0.2	0.3	GR03-SP334-E
GR03	SP334	E			Soil	0.5	0.6	GR03-SP334-E
GR03	SP334	F			Soil	0	0.1	GR03-SP334-F
GR03	SP334	F			Soil	0.2	0.3	GR03-SP334-F
GR03	SP334	F			Soil	0.4	0.5	GR03-SP334-F
GR03	SP334	G			Soil	0.1	0.2	GR03-SP334-G
GR03	SP334	G		-PFOA	Soil	0.1	0.2	GR03-SP334-G-PFOA
GR03	SP334	G			Soil	0.3	0.4	GR03-SP334-G
GR03	SP334	G			Soil	0.5	0.6	GR03-SP334-G
GR03	SP335	A			Soil	0	0.1	GR03-SP335-A
GR03	SP335	A			Soil	0.3	0.4	GR03-SP335-A
GR03	SP335	A			Soil	0.4	0.5	GR03-SP335-A
GR03	SP335	B			Soil	0.1	0.2	GR03-SP335-B
GR03	SP335	B			Soil	0.2	0.3	GR03-SP335-B
GR03	SP335	B		-S	Water	0.2	0.3	GR03-SP335-B-S
GR03	SP335	B			Soil	0.5	0.6	GR03-SP335-B
GR03	SP335	C			Soil	0	0.1	GR03-SP335-C
GR03	SP335	C			Soil	0.2	0.3	GR03-SP335-C
GR03	SP335	C		-PFOA	Soil	0.2	0.3	GR03-SP335-C-PFOA
GR03	SP335	C			Soil	0.4	0.5	GR03-SP335-C
GR03	SP335	D			Soil	0.1	0.2	GR03-SP335-D
GR03	SP335	D			Soil	0.3	0.4	GR03-SP335-D
GR03	SP335	D			Soil	0.5	0.6	GR03-SP335-D
GR03	SP335	E			Soil	0	0.1	GR03-SP335-E
GR03	SP335	E			Soil	0.3	0.4	GR03-SP335-E
GR03	SP335	E			Soil	0.4	0.5	GR03-SP335-E
GR03	SP335	F	-S1		Soil	0.1	0.2	GR03-SP335-F-S1
GR03	SP335	F	-S1		Soil	0.2	0.3	GR03-SP335-F-S1
GR03	SP335	F	-S1	-A1	Soil	0.5	0.6	GR03-SP335-F-S1-A1
GR03	SP335	F	-S1	-A2	Soil	0.5	0.601	GR03-SP335-F-S1-A2
GR03	SP335	F	-S2	-A1	Soil	0.5	0.6	GR03-SP335-F-S2-A1
GR03	SP335	F	-S2	-A2	Soil	0.5	0.601	GR03-SP335-F-S2-A2
GR03	SP335	G			Soil	0	0.1	GR03-SP335-G
GR03	SP335	G		-PFOA	Soil	0	0.1	GR03-SP335-G-PFOA
GR03	SP335	G			Soil	0.2	0.3	GR03-SP335-G

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Sampling Plan

Appendix E - Sampling Plan
GR03 Higher Deposition Area - SE

Risk Area	Property Ref	Pit Ref	Duplicate pit Ref	Sample Ref	Sample type	Top depth	Base depth	Unique sampling Code
GR03	SP335	G			Soil	0.4	0.5	GR03-SP335-G

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
GR04	SP401	A			Soil	0.1	0.2	GR04-SP401-A
GR04	SP401	A			Soil	0.3	0.4	GR04-SP401-A
GR04	SP401	A			Soil	0.5	0.6	GR04-SP401-A
GR04	SP401	B			Soil	0	0.1	GR04-SP401-B
GR04	SP401	B			Soil	0.3	0.4	GR04-SP401-B
GR04	SP401	B			Soil	0.4	0.5	GR04-SP401-B
GR04	SP401	B		-T	Water	0.4	0.5	GR04-SP401-B-T
GR04	SP401	B		-PFOA	Soil	0.4	0.5	GR04-SP401-B-PFOA
GR04	SP401	C			Soil	0.1	0.2	GR04-SP401-C
GR04	SP401	C			Soil	0.2	0.3	GR04-SP401-C
GR04	SP401	C			Soil	0.5	0.6	GR04-SP401-C
GR04	SP403	A			Soil	0	0.1	GR04-SP403-A
GR04	SP403	A			Soil	0.2	0.3	GR04-SP403-A
GR04	SP403	A			Soil	0.4	0.5	GR04-SP403-A
GR04	SP403	B			Soil	0.1	0.2	GR04-SP403-B
GR04	SP403	B			Soil	0.3	0.4	GR04-SP403-B
GR04	SP403	B		-PFOA	Soil	0.3	0.4	GR04-SP403-B-PFOA
GR04	SP403	B			Soil	0.5	0.6	GR04-SP403-B
GR04	SP403	C			Soil	0	0.1	GR04-SP403-C
GR04	SP403	C			Soil	0.3	0.4	GR04-SP403-C
GR04	SP403	C			Soil	0.4	0.5	GR04-SP403-C
GR04	SP403	C		-S	Water	0.4	0.5	GR04-SP403-C-S
GR04	SP406	A			Soil	0	0.1	GR04-SP406-A
GR04	SP406	A			Soil	0.3	0.4	GR04-SP406-A
GR04	SP406	A			Soil	0.4	0.5	GR04-SP406-A
GR04	SP406	A		-PFOA	Soil	0.4	0.5	GR04-SP406-A-PFOA
GR04	SP406	B	-S1		Soil	0.1	0.2	GR04-SP406-B-S1
GR04	SP406	B	-S1	-A1	Soil	0.2	0.3	GR04-SP406-B-S1-A1
GR04	SP406	B	-S1	-A2	Soil	0.2	0.301	GR04-SP406-B-S1-A2
GR04	SP406	B	-S2	-A1	Soil	0.2	0.3	GR04-SP406-B-S2-A1
GR04	SP406	B	-S2	-A2	Soil	0.2	0.301	GR04-SP406-B-S2-A2
GR04	SP406	B	-S1		Soil	0.5	0.6	GR04-SP406-B-S1
GR04	SP406	C			Soil	0	0.1	GR04-SP406-C
GR04	SP406	C			Soil	0.2	0.3	GR04-SP406-C
GR04	SP406	C		-S	Water	0.2	0.3	GR04-SP406-C-S
GR04	SP406	C			Soil	0.4	0.5	GR04-SP406-C
GR04	SP406	D			Soil	0.1	0.2	GR04-SP406-D
GR04	SP406	D			Soil	0.3	0.4	GR04-SP406-D
GR04	SP406	D			Soil	0.5	0.6	GR04-SP406-D
GR04	SP406	E			Soil	0	0.1	GR04-SP406-E
GR04	SP406	E			Soil	0.3	0.4	GR04-SP406-E
GR04	SP406	E			Soil	0.4	0.5	GR04-SP406-E
GR04	SP408	A			Soil	0	0.1	GR04-SP408-A
GR04	SP408	A			Soil	0.2	0.3	GR04-SP408-A
GR04	SP408	A			Soil	0.4	0.5	GR04-SP408-A
GR04	SP408	A		-PFOA	Soil	0.4	0.5	GR04-SP408-A-PFOA
GR04	SP441	A			Soil	0	0.1	GR04-SP441-A
GR04	SP441	A			Soil	0.2	0.3	GR04-SP441-A
GR04	SP441	A		-PFOA	Soil	0.4	0.5	GR04-SP441-A-PFOA
GR04	SP441	A			Soil	0.4	0.5	GR04-SP441-A
GR04	SP409	A			Soil	0.1	0.2	GR04-SP409-A
GR04	SP409	A			Soil	0.2	0.3	GR04-SP409-A
GR04	SP409	A			Soil	0.5	0.55	GR04-SP409-A
GR04	SP409	B			Soil	0	0.1	GR04-SP409-B
GR04	SP409	B			Soil	0.2	0.3	GR04-SP409-B
GR04	SP409	B		-PFOA	Soil	0.2	0.3	GR04-SP409-B-PFOA
GR04	SP409	B			Soil	0.4	0.5	GR04-SP409-B
GR04	SP409	C			Soil	0.1	0.2	GR04-SP409-C
GR04	SP409	C			Soil	0.3	0.4	GR04-SP409-C
GR04	SP409	C			Soil	0.5	0.6	GR04-SP409-C
GR04	SP410	A			Soil	0	0.1	GR04-SP410-A
GR04	SP410	A			Soil	0.3	0.4	GR04-SP410-A
GR04	SP410	A		-PFOA	Soil	0.3	0.4	GR04-SP410-A-PFOA

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
GR04	SP410	A			Soil	0.4	0.5	GR04-SP410-A
GR04	SP411	A	-S1		Soil	0.1	0.2	GR04-SP411-A-S1
GR04	SP411	A	-S1		Soil	0.3	0.4	GR04-SP411-A-S1
GR04	SP411	A	-S1	-A1	Soil	0.5	0.6	GR04-SP411-A-S1-A1
GR04	SP411	A	-S1	-A2	Soil	0.5	0.601	GR04-SP411-A-S1-A2
GR04	SP411	A	-S2	-A1	Soil	0.5	0.6	GR04-SP411-A-S2-A1
GR04	SP411	A	-S2	-A2	Soil	0.5	0.601	GR04-SP411-A-S2-A2
GR04	SP411	B			Soil	0	0.1	GR04-SP411-B
GR04	SP411	B		-T	Water	0	0.1	GR04-SP411-B-T
GR04	SP411	B			Soil	0.3	0.4	GR04-SP411-B
GR04	SP411	B			Soil	0.4	0.5	GR04-SP411-B
GR04	SP411	B		-PFOA	Soil	0.4	0.5	GR04-SP411-B-PFOA
GR04	SP411	C			Soil	0.1	0.2	GR04-SP411-C
GR04	SP411	C			Soil	0.2	0.3	GR04-SP411-C
GR04	SP411	C			Soil	0.5	0.6	GR04-SP411-C
GR04	SP411	D			Soil	0	0.1	GR04-SP411-D
GR04	SP411	D			Soil	0.2	0.3	GR04-SP411-D
GR04	SP411	D			Soil	0.4	0.5	GR04-SP411-D
GR04	SP411	E			Soil	0.1	0.2	GR04-SP411-E
GR04	SP411	E			Soil	0.3	0.4	GR04-SP411-E
GR04	SP411	E			Soil	0.5	0.6	GR04-SP411-E
GR04	SP412	A			Soil	0	0.1	GR04-SP412-A
GR04	SP412	A			Soil	0.2	0.3	GR04-SP412-A
GR04	SP412	A			Soil	0.4	0.5	GR04-SP412-A
GR04	SP412	B			Soil	0.1	0.2	GR04-SP412-B
GR04	SP412	B			Soil	0.3	0.4	GR04-SP412-B
GR04	SP412	B			Soil	0.5	0.6	GR04-SP412-B
GR04	SP412	B		-S	Water	0	0.6	GR04-SP412-B-S
GR04	SP412	C			Soil	0	0.1	GR04-SP412-C
GR04	SP412	C			Soil	0.3	0.4	GR04-SP412-C
GR04	SP412	C		-PFOA	Soil	0.3	0.4	GR04-SP412-C-PFOA
GR04	SP412	C			Soil	0.4	0.5	GR04-SP412-C
GR04	SP413	A			Soil	0.1	0.2	GR04-SP413-A
GR04	SP413	A			Soil	0.2	0.3	GR04-SP413-A
GR04	SP413	A			Soil	0.5	0.6	GR04-SP413-A
GR04	SP413	B			Soil	0	0.1	GR04-SP413-B
GR04	SP413	B			Soil	0.2	0.3	GR04-SP413-B
GR04	SP413	B			Soil	0.4	0.5	GR04-SP413-B
GR04	SP413	B		-T	Water	0.4	0.5	GR04-SP413-B-T
GR04	SP413	C	-S1	-A1	Soil	0.1	0.2	GR04-SP413-C-S1-A1
GR04	SP413	C	-S1	-A2	Soil	0.1	0.201	GR04-SP413-C-S1-A2
GR04	SP413	C	-S2	-A1	Soil	0.1	0.2	GR04-SP413-C-S2-A1
GR04	SP413	C	-S2	-A2	Soil	0.1	0.201	GR04-SP413-C-S2-A2
GR04	SP413	C	-S1		Soil	0.3	0.4	GR04-SP413-C-S1
GR04	SP413	C	-S1		Soil	0.5	0.6	GR04-SP413-C-S1
GR04	SP413	C		-PFOA	Soil	0.5	0.6	GR04-SP413-C-PFOA
GR04	SP413	D			Soil	0	0.1	GR04-SP413-D
GR04	SP413	D			Soil	0.3	0.4	GR04-SP413-D
GR04	SP413	D			Soil	0.4	0.5	GR04-SP413-D
GR04	SP413	E			Soil	0.1	0.2	GR04-SP413-E
GR04	SP413	E			Soil	0.2	0.3	GR04-SP413-E
GR04	SP413	E			Soil	0.5	0.6	GR04-SP413-E
GR04	SP415	A			Soil	0	0.1	GR04-SP415-A
GR04	SP415	A			Soil	0.2	0.3	GR04-SP415-A
GR04	SP415	A			Soil	0.4	0.5	GR04-SP415-A
GR04	SP416	A			Soil	0	0.1	GR04-SP416-A
GR04	SP416	A			Soil	0.2	0.3	GR04-SP416-A
GR04	SP416	A			Soil	0.4	0.5	GR04-SP416-A
GR04	SP416	A		-PFOA	Soil	0.4	0.5	GR04-SP416-A-PFOA
GR04	SP416	B			Soil	0.1	0.2	GR04-SP416-B
GR04	SP416	B		-T	Water	0.1	0.2	GR04-SP416-B-T
GR04	SP416	B			Soil	0.3	0.4	GR04-SP416-B
GR04	SP416	B			Soil	0.5	0.6	GR04-SP416-B

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
GR04	SP416	C	-S1		Soil	0	0.1	GR04-SP416-C-S1
GR04	SP416	C	-S1		Soil	0.3	0.4	GR04-SP416-C-S1
GR04	SP416	C	-S1	-A1	Soil	0.4	0.5	GR04-SP416-C-S1-A1
GR04	SP416	C	-S1	-A2	Soil	0.4	0.501	GR04-SP416-C-S1-A2
GR04	SP416	C	-S2	-A1	Soil	0.4	0.5	GR04-SP416-C-S2-A1
GR04	SP416	C	-S2	-A2	Soil	0.4	0.501	GR04-SP416-C-S2-A2
GR04	SP416	D			Soil	0.1	0.2	GR04-SP416-D
GR04	SP416	D			Soil	0.3	0.4	GR04-SP416-D
GR04	SP416	D			Soil	0.5	0.6	GR04-SP416-D
GR04	SP416	E			Soil	0	0.1	GR04-SP416-E
GR04	SP416	E			Soil	0.2	0.3	GR04-SP416-E
GR04	SP416	E			Soil	0.4	0.5	GR04-SP416-E
GR04	SP417	A			Soil	0	0.1	GR04-SP417-A
GR04	SP417	A			Soil	0.3	0.4	GR04-SP417-A
GR04	SP417	A			Soil	0.4	0.5	GR04-SP417-A
GR04	SP417	A		-PFOA	Soil	0.4	0.5	GR04-SP417-A-PFOA
GR04	SP419	A	-S1		Soil	0	0.1	GR04-SP419-A-S1
GR04	SP419	A	-S1	-A1	Soil	0.3	0.4	GR04-SP419-A-S1-A1
GR04	SP419	A	-S1	-A2	Soil	0.3	0.401	GR04-SP419-A-S1-A2
GR04	SP419	A	-S2	-A1	Soil	0.3	0.4	GR04-SP419-A-S2-A1
GR04	SP419	A	-S2	-A2	Soil	0.3	0.401	GR04-SP419-A-S2-A2
GR04	SP419	A	-S1		Soil	0.4	0.5	GR04-SP419-A-S1
GR04	SP419	A	-S1	-S	Water	0	0.5	GR04-SP419-A-S1-S
GR04	SP419	B			Soil	0.1	0.2	GR04-SP419-B
GR04	SP419	B			Soil	0.2	0.3	GR04-SP419-B
GR04	SP419	B			Soil	0.5	0.6	GR04-SP419-B
GR04	SP419	C			Soil	0	0.1	GR04-SP419-C
GR04	SP419	C			Soil	0.2	0.3	GR04-SP419-C
GR04	SP419	C			Soil	0.4	0.5	GR04-SP419-C
GR04	SP419	D			Soil	0.1	0.2	GR04-SP419-D
GR04	SP419	D			Soil	0.3	0.4	GR04-SP419-D
GR04	SP419	D			Soil	0.5	0.6	GR04-SP419-D
GR04	SP419	E			Soil	0	0.1	GR04-SP419-E
GR04	SP419	E			Soil	0.3	0.4	GR04-SP419-E
GR04	SP419	E		-PFOA	Soil	0.4	0.5	GR04-SP419-E-PFOA
GR04	SP419	E			Soil	0.4	0.5	GR04-SP419-E
GR04	SP420	A			Soil	0.1	0.2	GR04-SP420-A
GR04	SP420	A		-T	Water	0.1	0.2	GR04-SP420-A-T
GR04	SP420	A			Soil	0.3	0.4	GR04-SP420-A
GR04	SP420	A		-PFOA	Soil	0.3	0.4	GR04-SP420-A-PFOA
GR04	SP420	A			Soil	0.5	0.6	GR04-SP420-A
GR04	SP420	B			Soil	0	0.1	GR04-SP420-B
GR04	SP420	B			Soil	0.3	0.4	GR04-SP420-B
GR04	SP420	B			Soil	0.4	0.5	GR04-SP420-B
GR04	SP420	C			Soil	0.1	0.2	GR04-SP420-C
GR04	SP420	C			Soil	0.2	0.3	GR04-SP420-C
GR04	SP420	C			Soil	0.5	0.6	GR04-SP420-C
GR04	SP421	A			Soil	0	0.1	GR04-SP421-A
GR04	SP421	A			Soil	0.2	0.3	GR04-SP421-A
GR04	SP421	A			Soil	0.4	0.5	GR04-SP421-A
GR04	SP421	B			Soil	0.1	0.2	GR04-SP421-B
GR04	SP421	B			Soil	0.3	0.4	GR04-SP421-B
GR04	SP421	B			Soil	0.5	0.6	GR04-SP421-B
GR04	SP421	B		-PFOA	Soil	0.5	0.6	GR04-SP421-B-PFOA
GR04	SP421	C			Soil	0	0.1	GR04-SP421-C
GR04	SP421	C			Soil	0.3	0.4	GR04-SP421-C
GR04	SP421	C			Soil	0.4	0.5	GR04-SP421-C
GR04	SP421	C		-S	Water	0	0.5	GR04-SP421-C-S
GR04	SP422	A			Soil	0.1	0.2	GR04-SP422-A
GR04	SP422	A			Soil	0.2	0.3	GR04-SP422-A
GR04	SP422	A			Soil	0.5	0.6	GR04-SP422-A
GR04	SP422	B			Soil	0	0.1	GR04-SP422-B

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
GR04	SP422	B			Soil	0.2	0.3	GR04-SP422-B
GR04	SP422	B			Soil	0.4	0.5	GR04-SP422-B
GR04	SP422	C			Soil	0.1	0.2	GR04-SP422-C
GR04	SP422	C			Soil	0.3	0.4	GR04-SP422-C
GR04	SP422	C		-T	Water	0.3	0.4	GR04-SP422-C-T
GR04	SP422	C			Soil	0.5	0.6	GR04-SP422-C
GR04	SP422	C		-PFOA	Soil	0.5	0.6	GR04-SP422-C-PFOA
GR04	SP423	A			Soil	0	0.1	GR04-SP423-A
GR04	SP423	A		-PFOA	Soil	0	0.1	GR04-SP423-A-PFOA
GR04	SP423	A			Soil	0.3	0.4	GR04-SP423-A
GR04	SP423	A			Soil	0.4	0.5	GR04-SP423-A
GR04	SP425	A			Soil	0	0.1	GR04-SP425-A
GR04	SP425	A		-T	Water	0	0.1	GR04-SP425-A-T
GR04	SP425	A			Soil	0.2	0.3	GR04-SP425-A
GR04	SP425	A			Soil	0.4	0.5	GR04-SP425-A
GR04	SP425	B			Soil	0.1	0.2	GR04-SP425-B
GR04	SP425	B			Soil	0.3	0.4	GR04-SP425-B
GR04	SP425	B			Soil	0.5	0.6	GR04-SP425-B
GR04	SP425	C			Soil	0	0.1	GR04-SP425-C
GR04	SP425	C		-PFOA	Soil	0	0.1	GR04-SP425-C-PFOA
GR04	SP425	C			Soil	0.3	0.4	GR04-SP425-C
GR04	SP425	C			Soil	0.4	0.5	GR04-SP425-C
GR04	SP426	A			Soil	0.1	0.2	GR04-SP426-A
GR04	SP426	A		-T	Water	0.1	0.2	GR04-SP426-A-T
GR04	SP426	A			Soil	0.2	0.3	GR04-SP426-A
GR04	SP426	A			Soil	0.5	0.6	GR04-SP426-A
GR04	SP426	B			Soil	0	0.1	GR04-SP426-B
GR04	SP426	B			Soil	0.2	0.3	GR04-SP426-B
GR04	SP426	B			Soil	0.4	0.5	GR04-SP426-B
GR04	SP426	B		-S	Water	0	0.5	GR04-SP426-B-S
GR04	SP426	B		-PFOA	Soil	0.4	0.5	GR04-SP426-B-PFOA
GR04	SP426	C			Soil	0.1	0.2	GR04-SP426-C
GR04	SP426	C			Soil	0.3	0.4	GR04-SP426-C
GR04	SP426	C			Soil	0.5	0.6	GR04-SP426-C
GR04	SP427	A			Soil	0	0.1	GR04-SP427-A
GR04	SP427	A			Soil	0.3	0.4	GR04-SP427-A
GR04	SP427	A			Soil	0.4	0.5	GR04-SP427-A
GR04	SP427	A		-T	Water	0.4	0.5	GR04-SP427-A-T
GR04	SP427	B			Soil	0.1	0.2	GR04-SP427-B
GR04	SP427	B			Soil	0.2	0.3	GR04-SP427-B
GR04	SP427	B			Soil	0.5	0.6	GR04-SP427-B
GR04	SP427	C			Soil	0	0.1	GR04-SP427-C
GR04	SP427	C			Soil	0.2	0.3	GR04-SP427-C
GR04	SP427	C			Soil	0.4	0.5	GR04-SP427-C
GR04	SP427	C		-PFOA	Soil	0.4	0.5	GR04-SP427-C-PFOA
GR04	SP429	A			Soil	0.1	0.2	GR04-SP429-A
GR04	SP429	A			Soil	0.3	0.4	GR04-SP429-A
GR04	SP429	A			Soil	0.5	0.6	GR04-SP429-A
GR04	SP429	A		-S	Water	0.5	0.6	GR04-SP429-A-S
GR04	SP429	B			Soil	0	0.1	GR04-SP429-B
GR04	SP429	B			Soil	0.3	0.4	GR04-SP429-B
GR04	SP429	B		-PFOA	Soil	0.3	0.4	GR04-SP429-B-PFOA
GR04	SP429	B			Soil	0.4	0.5	GR04-SP429-B
GR04	SP429	C			Soil	0.1	0.2	GR04-SP429-C
GR04	SP429	C			Soil	0.2	0.3	GR04-SP429-C
GR04	SP429	C			Soil	0.5	0.6	GR04-SP429-C
GR04	SP430	A			Soil	0	0.1	GR04-SP430-A
GR04	SP430	A			Soil	0.2	0.3	GR04-SP430-A
GR04	SP430	A			Soil	0.4	0.5	GR04-SP430-A
GR04	SP430	A		-S	Water	0.4	0.5	GR04-SP430-A-S
GR04	SP430	B			Soil	0.1	0.2	GR04-SP430-B
GR04	SP430	B			Soil	0.3	0.4	GR04-SP430-B

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
GR04	SP430	B		-PFOA	Soil	0.3	0.4	GR04-SP430-B-PFOA
GR04	SP430	B			Soil	0.5	0.6	GR04-SP430-B
GR04	SP430	B		-T	Water	0.5	0.6	GR04-SP430-B-T
GR04	SP430	C			Soil	0	0.1	GR04-SP430-C
GR04	SP430	C			Soil	0.3	0.4	GR04-SP430-C
GR04	SP430	C			Soil	0.4	0.5	GR04-SP430-C
GR04	SP434	A			Soil	0.1	0.2	GR04-SP434-A
GR04	SP434	A			Soil	0.2	0.3	GR04-SP434-A
GR04	SP434	A			Soil	0.5	0.6	GR04-SP434-A
GR04	SP434	A		-S	Water	0.5	0.6	GR04-SP434-A-S
GR04	SP434	B			Soil	0	0.1	GR04-SP434-B
GR04	SP434	C			Soil	0.1	0.2	GR04-SP434-C
GR04	SP434	C			Soil	0.3	0.4	GR04-SP434-C
GR04	SP434	C		-T	Water	0.3	0.4	GR04-SP434-C-T
GR04	SP434	C		-PFOA	Soil	0.3	0.4	GR04-SP434-C-PFOA
GR04	SP434	C			Soil	0.5	0.6	GR04-SP434-C
GR04	SP435	A			Soil	0	0.1	GR04-SP435-A
GR04	SP435	A			Soil	0.2	0.3	GR04-SP435-A
GR04	SP435	A			Soil	0.4	0.5	GR04-SP435-A
GR04	SP435	A		-PFOA	Soil	0.4	0.5	GR04-SP435-A-PFOA
GR04	SP435	B			Soil	0.1	0.2	GR04-SP435-B
GR04	SP435	B		-T	Water	0.1	0.2	GR04-SP435-B-T
GR04	SP435	B			Soil	0.3	0.4	GR04-SP435-B
GR04	SP435	B			Soil	0.5	0.6	GR04-SP435-B
GR04	SP435	C			Soil	0	0.1	GR04-SP435-C
GR04	SP435	C			Soil	0.3	0.4	GR04-SP435-C
GR04	SP435	C			Soil	0.4	0.5	GR04-SP435-C
GR04	SP436	A			Soil	0.1	0.2	GR04-SP436-A
GR04	SP436	A			Soil	0.2	0.3	GR04-SP436-A
GR04	SP436	A			Soil	0.5	0.6	GR04-SP436-A
GR04	SP436	A		-PFOA	Soil	0.5	0.6	GR04-SP436-A-PFOA
GR04	SP436	B			Soil	0	0.1	GR04-SP436-B
GR04	SP436	B			Soil	0.2	0.3	GR04-SP436-B
GR04	SP436	B			Soil	0.4	0.5	GR04-SP436-B
GR04	SP436	B		-S	Water	0.4	0.5	GR04-SP436-B-S
GR04	SP436	C			Soil	0.1	0.2	GR04-SP436-C
GR04	SP436	C			Soil	0.3	0.4	GR04-SP436-C
GR04	SP436	C			Soil	0.5	0.6	GR04-SP436-C
GR04	SP437	A			Soil	0	0.1	GR04-SP437-A
GR04	SP437	A			Soil	0.3	0.4	GR04-SP437-A
GR04	SP437	A			Soil	0.4	0.5	GR04-SP437-A
GR04	SP437	A		-S	Water	0.4	0.5	GR04-SP437-A-S
GR04	SP437	B			Soil	0.1	0.2	GR04-SP437-B
GR04	SP437	B			Soil	0.2	0.3	GR04-SP437-B
GR04	SP437	B		-PFOA	Soil	0.2	0.3	GR04-SP437-B-PFOA
GR04	SP437	B			Soil	0.5	0.6	GR04-SP437-B
GR04	SP437	C			Soil	0	0.1	GR04-SP437-C
GR04	SP437	C			Soil	0.2	0.3	GR04-SP437-C
GR04	SP437	C			Soil	0.4	0.5	GR04-SP437-C
GR04	SP438	A			Soil	0.1	0.2	GR04-SP438-A
GR04	SP438	A		-PFOA	Soil	0.1	0.2	GR04-SP438-A-PFOA
GR04	SP438	A			Soil	0.3	0.4	GR04-SP438-A
GR04	SP438	A			Soil	0.5	0.6	GR04-SP438-A
GR04	SP438	A		-T	Water	0	0.6	GR04-SP438-A-T
GR04	SP438	B			Soil	0	0.1	GR04-SP438-B
GR04	SP438	B			Soil	0.3	0.4	GR04-SP438-B
GR04	SP438	B			Soil	0.4	0.5	GR04-SP438-B
GR04	SP438	C			Soil	0.1	0.2	GR04-SP438-C
GR04	SP438	C			Soil	0.2	0.3	GR04-SP438-C
GR04	SP438	C		-S	Water	0.2	0.3	GR04-SP438-C-S
GR04	SP438	C			Soil	0.5	0.6	GR04-SP438-C
GR04	SP439	A			Soil	0	0.1	GR04-SP439-A

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
GR04	SP439	A			Soil	0.2	0.3	GR04-SP439-A
GR04	SP439	A			Soil	0.4	0.5	GR04-SP439-A
GR04	SP439	A		-T	Water	0.4	0.5	GR04-SP439-A-T
GR04	SP439	B			Soil	0.1	0.2	GR04-SP439-B
GR04	SP439	B			Soil	0.3	0.4	GR04-SP439-B
GR04	SP439	B			Soil	0.5	0.6	GR04-SP439-B
GR04	SP439	C			Soil	0	0.1	GR04-SP439-C
GR04	SP439	C		-PFOA	Soil	0	0.1	GR04-SP439-C-PFOA
GR04	SP439	C			Soil	0.3	0.4	GR04-SP439-C
GR04	SP439	C			Soil	0.4	0.5	GR04-SP439-C
GR04	SP440	A			Soil	0.1	0.2	GR04-SP440-A
GR04	SP440	A			Soil	0.2	0.3	GR04-SP440-A
GR04	SP440	A			Soil	0.5	0.6	GR04-SP440-A
GR04	SP440	A		-T	Water	0.5	0.6	GR04-SP440-A-T
GR04	SP440	B			Soil	0	0.1	GR04-SP440-B
GR04	SP440	B			Soil	0.2	0.3	GR04-SP440-B
GR04	SP440	B		-PFOA	Soil	0.2	0.3	GR04-SP440-B-PFOA
GR04	SP440	B			Soil	0.4	0.5	GR04-SP440-B
GR04	SP440	C			Soil	0.1	0.2	GR04-SP440-C
GR04	SP440	C			Soil	0.3	0.4	GR04-SP440-C
GR04	SP440	C			Soil	0.5	0.6	GR04-SP440-C
GR04	SP442	A			Soil	0	0.1	GR04-SP442-A
GR04	SP442	A			Soil	0.3	0.4	GR04-SP442-A
GR04	SP442	A			Soil	0.4	0.5	GR04-SP442-A
GR04	SP442	A		-S	Water	0	0.5	GR04-SP442-A-S
GR04	SP442	B			Soil	0.1	0.2	GR04-SP442-B
GR04	SP442	B			Soil	0.2	0.3	GR04-SP442-B
GR04	SP442	B			Soil	0.5	0.6	GR04-SP442-B
GR04	SP442	B		-PFOA	Soil	0.5	0.6	GR04-SP442-B-PFOA
GR04	SP442	C			Soil	0	0.1	GR04-SP442-C
GR04	SP442	C		-T	Water	0	0.1	GR04-SP442-C-T
GR04	SP442	C			Soil	0.2	0.3	GR04-SP442-C
GR04	SP442	C			Soil	0.4	0.5	GR04-SP442-C

Risk Area	Property ref	Pit ref	Dup Ref	Sample Ref	Sample type	Depth top	Depth base	Unique sampling Code
POUL	SP504	A	-S1	-A1	Soil	0	0.1	POUL-SP504-A-S1-A1
POUL	SP504	A	-S1	-A2	Soil	0	0.101	POUL-SP504-A-S1-A2
POUL	SP504	A	-S2	-A1	Soil	0	0.1	POUL-SP504-A-S2-A1
POUL	SP504	A	-S2	-A2	Soil	0	0.101	POUL-SP504-A-S2-A2
POUL	SP504	A	-S1		Soil	0.2	0.3	POUL-SP504-A-S1
POUL	SP504	A	-S1		Soil	0.4	0.5	POUL-SP504-A-S1
POUL	SP504	B			Soil	0.1	0.2	POUL-SP504-B
POUL	SP504	B			Soil	0.3	0.4	POUL-SP504-B
POUL	SP504	B			Soil	0.5	0.6	POUL-SP504-B
POUL	SP504	B		-T	Water	0.5	0.6	POUL-SP504-B-T
POUL	SP504	C			Soil	0	0.1	POUL-SP504-C
POUL	SP504	C			Soil	0.3	0.4	POUL-SP504-C
POUL	SP504	C			Soil	0.4	0.5	POUL-SP504-C
POUL	SP504	D			Soil	0.1	0.2	POUL-SP504-D
POUL	SP504	D			Soil	0.2	0.3	POUL-SP504-D
POUL	SP504	D			Soil	0.5	0.6	POUL-SP504-D
POUL	SP504	E			Soil	0	0.1	POUL-SP504-E
POUL	SP504	E		-S	Water	0	0.1	POUL-SP504-E-S
POUL	SP504	E			Soil	0.2	0.3	POUL-SP504-E
POUL	SP504	E			Soil	0.4	0.5	POUL-SP504-E
POUL	SP504	E		-PFOA	Soil	0.4	0.5	POUL-SP504-E-PFOA
POUL	SP504	F			Soil	0.1	0.2	POUL-SP504-F
POUL	SP504	F			Soil	0.3	0.4	POUL-SP504-F
POUL	SP504	F			Soil	0.5	0.6	POUL-SP504-F
POUL	SP504	G			Soil	0	0.1	POUL-SP504-G
POUL	SP504	G			Soil	0.3	0.4	POUL-SP504-G
POUL	SP504	G			Soil	0.4	0.5	POUL-SP504-G
POUL	SP504	G		-PFOA	Soil	0.4	0.5	POUL-SP504-G-PFOA
POUL	SP504	EGG1			Egg			POUL-SP504-EGG1
POUL	SP504	EGG2			Egg			POUL-SP504-EGG2
POUL	SP504	EGG3			Egg			POUL-SP504-EGG3
POUL	SP504	EGG4			Egg			POUL-SP504-EGG4
POUL	SP511	A			Soil	0.1	0.2	POUL-SP511-A
POUL	SP511	A			Soil	0.2	0.3	POUL-SP511-A
POUL	SP511	A		-PFOA	Soil	0.2	0.3	POUL-SP511-A-PFOA
POUL	SP511	A			Soil	0.5	0.6	POUL-SP511-A
POUL	SP511	B			Soil	0	0.1	POUL-SP511-B
POUL	SP511	B			Soil	0.2	0.3	POUL-SP511-B
POUL	SP511	B			Soil	0.4	0.5	POUL-SP511-B
POUL	SP511	C	-S1		Soil	0.1	0.2	POUL-SP511-C-S1
POUL	SP511	C	-S1	-T	Water	0.1	0.2	POUL-SP511-C-S1-T
POUL	SP511	C	-S1	-A1	Soil	0.3	0.4	POUL-SP511-C-S1-A1
POUL	SP511	C	-S1	-A2	Soil	0.3	0.401	POUL-SP511-C-S1-A2
POUL	SP511	C	-S2	-A1	Soil	0.3	0.4	POUL-SP511-C-S2-A1
POUL	SP511	C	-S2	-A2	Soil	0.3	0.401	POUL-SP511-C-S2-A2
POUL	SP511	C	-S1		Soil	0.5	0.6	POUL-SP511-C-S1
POUL	SP511	D			Soil	0	0.1	POUL-SP511-D
POUL	SP511	D			Soil	0.3	0.4	POUL-SP511-D
POUL	SP511	D			Soil	0.4	0.5	POUL-SP511-D
POUL	SP511	E			Soil	0.1	0.2	POUL-SP511-E
POUL	SP511	E		-PFOA	Soil	0.1	0.2	POUL-SP511-E-PFOA
POUL	SP511	E			Soil	0.2	0.3	POUL-SP511-E
POUL	SP511	E			Soil	0.5	0.6	POUL-SP511-E
POUL	SP511	E		-S	Water	0.5	0.6	POUL-SP511-E-S
POUL	SP512	A			Soil	0	0.1	POUL-SP512-A
POUL	SP512	A			Soil	0.3	0.4	POUL-SP512-A
POUL	SP512	A			Soil	0.4	0.5	POUL-SP512-A

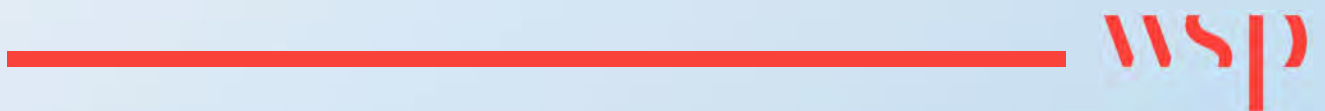
POUL	SP512	A		-T	Water	0.4	0.5	POUL-SP512-A-T
POUL	SP512	B	-S1		Soil	0.1	0.2	POUL-SP512-B-S1
POUL	SP512	B	-S1	-A1	Soil	0.2	0.3	POUL-SP512-B-S1-A1
POUL	SP512	B	-S1	-A2	Soil	0.2	0.301	POUL-SP512-B-S1-A2
POUL	SP512	B	-S2	-A1	Soil	0.2	0.3	POUL-SP512-B-S2-A1
POUL	SP512	B	-S2	-A2	Soil	0.2	0.301	POUL-SP512-B-S2-A2
POUL	SP512	B	-S1		Soil	0.5	0.6	POUL-SP512-B-S1
POUL	SP512	C			Soil	0	0.1	POUL-SP512-C
POUL	SP512	C		-PFOA	Soil	0	0.1	POUL-SP512-C-PFOA
POUL	SP512	C			Soil	0.2	0.3	POUL-SP512-C
POUL	SP512	C			Soil	0.4	0.5	POUL-SP512-C
POUL	SP512	EGG1			Egg			POUL-SP512-EGG1
POUL	SP512	EGG2			Egg			POUL-SP512-EGG2
POUL	SP512	EGG3			Egg			POUL-SP512-EGG3
POUL	SP512	EGG4			Egg			POUL-SP512-EGG4
POUL	SP513	A			Soil	0.1	0.2	POUL-SP513-A
POUL	SP513	A			Soil	0.3	0.4	POUL-SP513-A
POUL	SP513	A		-PFOA	Soil	0.3	0.4	POUL-SP513-A-PFOA
POUL	SP513	A			Soil	0.5	0.6	POUL-SP513-A
POUL	SP513	B	-S1		Soil	0	0.1	POUL-SP513-B-S1
POUL	SP513	B	-S1	-T	Water	0	0.1	POUL-SP513-B-S1-T
POUL	SP513	B	-S1		Soil	0.3	0.4	POUL-SP513-B-S1
POUL	SP513	B	-S1	-A1	Soil	0.4	0.5	POUL-SP513-B-S1-A1
POUL	SP513	B	-S1	-A2	Soil	0.4	0.501	POUL-SP513-B-S1-A2
POUL	SP513	B	-S2	-A1	Soil	0.4	0.5	POUL-SP513-B-S2-A1
POUL	SP513	B	-S2	-A2	Soil	0.4	0.501	POUL-SP513-B-S2-A2
POUL	SP513	C			Soil	0.1	0.2	POUL-SP513-C
POUL	SP513	C			Soil	0.2	0.3	POUL-SP513-C
POUL	SP513	C			Soil	0.5	0.6	POUL-SP513-C
POUL	SP513	D			Soil	0	0.1	POUL-SP513-D
POUL	SP513	D		-PFOA	Soil	0	0.1	POUL-SP513-D-PFOA
POUL	SP513	D			Soil	0.2	0.3	POUL-SP513-D
POUL	SP513	D			Soil	0.4	0.5	POUL-SP513-D
POUL	SP513	E			Soil	0.1	0.2	POUL-SP513-E
POUL	SP513	E		-S	Water	0	0.6	POUL-SP513-E-S
POUL	SP513	E			Soil	0.3	0.4	POUL-SP513-E
POUL	SP513	E			Soil	0.5	0.6	POUL-SP513-E
POUL	SP513	F			Soil	0	0.1	POUL-SP513-F
POUL	SP513	F			Soil	0.3	0.4	POUL-SP513-F
POUL	SP513	F			Soil	0.4	0.5	POUL-SP513-F
POUL	SP513	G			Soil	0.1	0.2	POUL-SP513-G
POUL	SP513	G		-PFOA	Soil	0.1	0.2	POUL-SP513-G-PFOA
POUL	SP513	G			Soil	0.2	0.3	POUL-SP513-G
POUL	SP513	G			Soil	0.5	0.6	POUL-SP513-G
POUL	SP513	G		-T	Water	0.5	0.6	POUL-SP513-G-T
POUL	SP513	EGG1			Egg			POUL-SP513-EGG1
POUL	SP513	EGG2			Egg			POUL-SP513-EGG2
POUL	SP513	EGG3			Egg			POUL-SP513-EGG3
POUL	SP513	EGG4			Egg			POUL-SP513-EGG4
POUL	SP513	EGG10			Egg			POUL-SP513-EGG10
POUL	SP513	EGG11			Egg			POUL-SP513-EGG11
POUL	SP513	EGG12			Egg			POUL-SP513-EGG12
POUL	SP513	EGG13			Egg			POUL-SP513-EGG13
POUL	SP510	A			Soil	0	0.1	POUL-SP510-A
POUL	SP510	A			Soil	0.1	0.2	POUL-SP510-A
POUL	SP510	B			Soil	0.1	0.2	POUL-SP510-B
POUL	SP510	B		-PFOA	Soil	0.1	0.2	POUL-SP510-B-PFOA
POUL	SP510	C			Soil	0	0.1	POUL-SP510-C
POUL	SP510	C		-S	Water	0	0.1	POUL-SP510-C-S
POUL	SP510	C		-PFOA	Soil	0	0.1	POUL-SP510-C-PFOA
POUL	SP510	D			Soil	0	0.1	POUL-SP510-D
POUL	SP510	D			Soil	0.1	0.17	POUL-SP510-D

POUL - Poultry Keepers

POUL	SP510	E	-S1		Soil	0.1	0.2	POUL-SP510-E-S1
POUL	SP510	E	-S1		Soil	0.2	0.3	POUL-SP510-E-S1
POUL	SP510	E	-S1	-A1	Soil	0.4	0.5	POUL-SP510-E-S1-A1
POUL	SP510	E	-S1	-A2	Soil	0.4	0.501	POUL-SP510-E-S1-A2
POUL	SP510	E	-S2	-A1	Soil	0.4	0.5	POUL-SP510-E-S2-A1
POUL	SP510	E	-S2	-A2	Soil	0.4	0.501	POUL-SP510-E-S2-A2
POUL	SP510	F			Soil	0.1	0.2	POUL-SP510-F
POUL	SP510	F		-T	Water	0.1	0.2	POUL-SP510-F-T
POUL	SP510	F			Soil	0.3	0.4	POUL-SP510-F
POUL	SP510	F			Soil	0.5	0.6	POUL-SP510-F
POUL	SP510	G			Soil	0	0.1	POUL-SP510-G
POUL	SP510	G			Soil	0.3	0.4	POUL-SP510-G
POUL	SP510	G			Soil	0.4	0.5	POUL-SP510-G
POUL	SP510	H			Soil	0	0.1	POUL-SP510-H
POUL	SP510	I			Soil	0	0.1	POUL-SP510-I
POUL	SP510	J			Soil	0	0.1	POUL-SP510-J
POUL	SP510	K			Soil	0	0.11	POUL-SP510-K
POUL	SP510	L			Soil	0	0.13	POUL-SP510-L
POUL	SP510	M			Soil	0	0.13	POUL-SP510-M
POUL	SP510	EGG1			Egg			POUL-SP510-EGG1
POUL	SP510	EGG2			Egg			POUL-SP510-EGG2
POUL	SP510	EGG3			Egg			POUL-SP510-EGG3
POUL	SP510	EGG4			Egg			POUL-SP510-EGG4

Appendix F

EXPLORATORY HOLE LOGS



Appendix G

LABORATORY RESULTS





Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	22 October 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251009-16
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	781068
Order Number:	UK-70100310-403

We received 29 samples on Wednesday October 08, 2025 and 27 of these samples were scheduled for analysis which was completed on Wednesday October 22, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32265546	LP33-SP314	ES	0.00 - 0.10	06/10/2025
32265568	LP33-SP314	ES	0.30 - 0.40	06/10/2025
32265590	LP33-SP314	ES	0.40 - 0.50	06/10/2025
32265592	LP33-SP316	ES	0.00 - 0.10	06/10/2025
32265594	LP33-SP316	ES	0.20 - 0.30	06/10/2025
32265596	LP33-SP316	ES	0.40 - 0.50	06/10/2025
32265598	LP33-SP319	ES	0.10 - 0.20	06/10/2025
32265600	LP33-SP319	ES	0.30 - 0.40	06/10/2025
32265602	LP33-SP319	ES	0.50 - 0.60	06/10/2025
32265548	LP33-SP320	ES	0.00 - 0.10	06/10/2025
32265550	LP33-SP320	ES	0.20 - 0.30	06/10/2025
32265552	LP33-SP320	ES	0.40 - 0.50	06/10/2025
32265554	LP33-SP321	ES	0.10 - 0.20	06/10/2025
32265556	LP33-SP321	ES	0.20 - 0.30	06/10/2025
32265558	LP33-SP321	ES	0.50 - 0.60	06/10/2025
32265560	LP33-SP327	ES	0.10 - 0.20	06/10/2025
32265562	LP33-SP327	ES	0.30 - 0.40	06/10/2025
32265564	LP33-SP327	ES	0.50 - 0.60	06/10/2025
32265584	LP33-SP329	ES	0.10 - 0.20	06/10/2025
32265586	LP33-SP329	ES	0.30 - 0.40	06/10/2025
32265588	LP33-SP329	ES	0.50 - 0.60	06/10/2025
32265566	LP33-SP328-S1	ES	0.00 - 0.10	06/10/2025
32265570	LP33-SP328-S1	ES	0.20 - 0.30	06/10/2025
32265572	LP33-SP328-S1	ESA1	0.40 - 0.50	06/10/2025
32265574	LP33-SP328-S1	ESA2	0.40 - 0.50	06/10/2025
32265576	LP33-SP328-S2	ES	0.00 - 0.10	06/10/2025
32265578	LP33-SP328-S2	ES	0.20 - 0.30	06/10/2025
32265580	LP33-SP328-S2	ESA1	0.40 - 0.50	06/10/2025
32265582	LP33-SP328-S2	ESA2	0.40 - 0.50	06/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
US - Treated Sewage
UT - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

PFAS in soils

pH

Sample description

Total Organic Carbon

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

All

NDPs: 0
Tests: 27

All

NDPs: 0
Tests: 27

All

NDPs: 0
Tests: 27

All

NDPs: 0
Tests: 27

32265584

LP33-SP329

ES

0.10 - 0.20

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265564

LP33-SP327

ES

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265562

LP33-SP327

ES

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265560

LP33-SP327

ES

0.10 - 0.20

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265558

LP33-SP321

ES

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265556

LP33-SP321

ES

0.20 - 0.30

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265554

LP33-SP321

ES

0.10 - 0.20

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265552

LP33-SP320

ES

0.40 - 0.50

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265550

LP33-SP320

ES

0.20 - 0.30

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265548

LP33-SP320

ES

0.00 - 0.10

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265602

LP33-SP319

ES

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265600

LP33-SP319

ES

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265598

LP33-SP319

ES

0.10 - 0.20

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265596

LP33-SP316

ES

0.40 - 0.50

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265594

LP33-SP316

ES

0.20 - 0.30

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265592

LP33-SP316

ES

0.00 - 0.10

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265590

LP33-SP314

ES

0.40 - 0.50

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265568

LP33-SP314

ES

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265546

LP33-SP314

ES

0.00 - 0.10

1kg TUB with
Handle (ALE260)

S

X

X

X

X

32265582	LP33-SP328-S2	ESA2	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X		X			X
32265580	LP33-SP328-S2	ESA1	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X		X	X		X
32265574	LP33-SP328-S1	ESA2	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X		X	X		X
32265572	LP33-SP328-S1	ESA1	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X		X	X		X
32265570	LP33-SP328-S1	ES	0.20 - 0.30	1 kg TUB with Handle (ALE260)	S	X		X	X		X
32265566	LP33-SP328-S1	ES	0.00 - 0.10	1 kg TUB with Handle (ALE260)	S	X		X	X		X
32265588	LP33-SP329	ES	0.50 - 0.60	1 kg TUB with Handle (ALE260)	S	X		X	X		X
32265586	LP33-SP329	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S	X		X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32265546	LP33-SP314	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32265568	LP33-SP314	0.30 - 0.40	Dark Brown	Clay Loam	Stones	Vegetation
32265590	LP33-SP314	0.40 - 0.50	Dark Brown	Clay Loam	Stones	Vegetation
32265592	LP33-SP316	0.00 - 0.10	Light Brown	Silt Loam	Stones	Vegetation
32265594	LP33-SP316	0.20 - 0.30	Dark Brown	Clay Loam	Stones	Vegetation
32265596	LP33-SP316	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265598	LP33-SP319	0.10 - 0.20	Light Brown	Sandy Silt Loam	Stones	Vegetation
32265600	LP33-SP319	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265602	LP33-SP319	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265548	LP33-SP320	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265550	LP33-SP320	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265552	LP33-SP320	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265554	LP33-SP321	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32265556	LP33-SP321	0.20 - 0.30	Light Brown	Sandy Loam	Stones	Vegetation
32265558	LP33-SP321	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None
32265560	LP33-SP327	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32265562	LP33-SP327	0.30 - 0.40	Dark Brown	Silty Clay Loam	Glass & Stones	Vegetation
32265564	LP33-SP327	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32265584	LP33-SP329	0.10 - 0.20	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265586	LP33-SP329	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32265588	LP33-SP329	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32265566	LP33-SP328-S1	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265570	LP33-SP328-S1	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32265572	LP33-SP328-S1	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32265574	LP33-SP328-S1	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None
32265580	LP33-SP328-S2	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32265582	LP33-SP328-S2	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP314	LP33-SP314	LP33-SP314	LP33-SP316	LP33-SP316	LP33-SP316
# ISO17025 accredited.				0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.				251009-16	251009-16	251009-16	251009-16	251009-16	251009-16
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				32265546	32265568	32265590	32265592	32265594	32265596
*** 6:2 FTAB (see appendix)				ES	ES	ES	ES	ES	ES
1-4**\$@Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	33	16	23	48	30	29	
Soil Organic Matter (SOM)	<0.35 %	TM132	8.45	2.4	3.38	18.3	7.46	6.12	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.09	7.32	7.37	7.64	7.62	7.54	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFMOPra (377-73-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
PFPA (2706-90-3)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	
PFHxA (307-24-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFBS (375-73-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
ADONA (919005-14-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
PFOA (335-67-1)	<0.0005 mg/kg	TM440	0.006	0.00311	0.00396	0.00449	0.00623	0.00413	
PFHxS (355-46-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
FBSA (30334-69-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PFNA (375-95-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFHpS (375-92-8)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	
PFDA (335-76-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Branched PFOS	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440	0.00244	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP319		LP33-SP319		LP33-SP319		LP33-SP320		LP33-SP320		LP33-SP320	
#	ISO17025 accredited.															
M	mCERTS accredited.															
aq	Aqueous / settled sample.															
diss.filt	Dissolved / filtered sample.															
tot.unfilt	Total / unfiltered sample.															
*	Subcontracted - refer to subcontractor report for accreditation status.															
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery															
***	6:2 FTAB (see appendix)															
1-4**	@Sample deviation (see appendix)															
Depth (m)			Sample Type		0.10 - 0.20		0.30 - 0.40		0.50 - 0.60		0.00 - 0.10		0.20 - 0.30		0.40 - 0.50	
Date Sampled			Soil/Solid (S)		06/10/2025		Soil/Solid (S)		06/10/2025		Soil/Solid (S)		06/10/2025		Soil/Solid (S)	
Sample Time																
Date Received			08/10/2025		251009-16		08/10/2025		251009-16		08/10/2025		251009-16		08/10/2025	
SDG Ref			32265598		ES		32265600		ES		32265602		ES		32265552	
Lab Sample No.(s)																
AGS Reference																
Component			LOD/Units		Method											
Moisture Content Ratio (% of as received sample)			%		PM024		46		35		24		31		24	
Soil Organic Matter (SOM)			<0.35 %		TM132		21.7		13.6		5.5		11		10.2	
pH			1 pH Units		TM133		7.68		7.51		7.41		7.53		7.55	
PFBA (375-22-4)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFMOPrA (377-73-1)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
3:3 FTCA (356-02-5)			<0.0008 mg/kg		TM440		<0.0008		<0.0008		<0.0008		<0.0008		<0.0008	
PFPA (2706-90-3)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFMOBA (863090-89-5)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
4:2 FTS (757124-72-4)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
NFDHA (151772-58-6)			<0.0018 mg/kg		TM440		<0.0018		<0.0018		<0.0018		<0.0018		<0.0018	
PFHxA (307-24-4)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFBS (375-73-5)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
HFPO-DA (13252-13-6)			<0.001 mg/kg		TM440		<0.001		<0.001		<0.001		<0.001		<0.001	
PFEESA (113507-82-7)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFHpA (375-85-9) (18)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFPeS (2706-91-4)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
ADONA (919005-14-4)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
6:2 FTS (27619-97-2)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
5:3 FTCA (914637-49-3)			<0.0025 mg/kg		TM440		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025	
PFOA (335-67-1)			<0.0005 mg/kg		TM440		0.00434		0.00587		0.00811		0.00645		0.0116	
PFHxS (355-46-4)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
FBSA (30334-69-1)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
6:2 FTAB (34455-29-3)***			<0.01 mg/kg		TM440		<0.01		<0.01		<0.01		<0.01		<0.01	
PFNA (375-95-1)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFecHS (133201-07-7)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFHpS (375-92-8)			<0.0006 mg/kg		TM440		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006	
8:2 FTS (39108-34-4)			<0.0009 mg/kg		TM440		<0.0009		<0.0009		<0.0009		<0.0009		<0.0009	
HFPO-TA (13252-14-7)			<0.0044 mg/kg		TM440		<0.0044		<0.0044		<0.0044		<0.0044		<0.0044	
PFDA (335-76-2)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
MeFOSAA (2355-31-9)			<0.0005 mg/kg		TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
Branched PFOS			<0.0006 mg/kg		TM440		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006	
Linear PFOS (1763-23-1)			<0.0006 mg/kg		TM440		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006	
7:3 FTCA (812-70-4)			<0.0025 mg/kg		TM440		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP321	LP33-SP321	LP33-SP321	LP33-SP327	LP33-SP327	LP33-SP327
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265554 ES	0.20 - 0.30 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265556 ES	0.50 - 0.60 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265558 ES	0.10 - 0.20 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265560 ES	0.30 - 0.40 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265562 ES	0.50 - 0.60 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265564 ES		
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024	21	21	15	30	25	21		
Soil Organic Matter (SOM)	<0.35 %	TM132	6.79	7.14	2.88	8.17	4.52	3.64		
			#	#	#	#	#	#		
pH	1 pH Units	TM133	7.09	6.71	7.19	7.57	7.44	7.41		
			M	M	M	M	M	M		
PFBA (375-22-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFMOPrA (377-73-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008		
PFPA (2706-90-3)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018		
PFHxA (307-24-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFBS (375-73-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
ADONA (919005-14-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
PFOA (335-67-1)	<0.0005 mg/kg	TM440	0.00994	0.0101	0.00589	0.00397	0.00826	0.00523		
PFHxS (355-46-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
FBSA (30334-69-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
PFNA (375-95-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
PFHpS (375-92-8)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009		
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044		
PFDA (335-76-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
Branched PFOS	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006		
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP329		LP33-SP329		LP33-SP329		LP33-SP328-S1		LP33-SP328-S1		LP33-SP328-S1	
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)																
Depth (m)																
Sample Type																
Date Sampled																
Sample Time																
Date Received																
SDG Ref																
Lab Sample No.(s)																
AGS Reference																
Component	LOD/Units	Method														
Moisture Content Ratio (% of as received sample)	%	PM024	25		14		18		25		22		25			
Soil Organic Matter (SOM)	<0.35 %	TM132	6.96		2.21		2.97		6.02		4.62		4.14			
			#		#		#		#		#		#			
pH	1 pH Units	TM133	7.23		7.54		7.74		7.08		6.97		7.03			
			M		M		M		M		M		M			
PFBA (375-22-4)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFMOPrA (377-73-1)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440	<0.0008		<0.0008		<0.0008		<0.0008		<0.0008		<0.0008			
PFPA (2706-90-3)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440	<0.0018		<0.0018		<0.0018		<0.0018		<0.0018		<0.0018			
PFHxA (307-24-4)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFBS (375-73-5)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440	<0.001		<0.001		<0.001		<0.001		<0.001		<0.001			
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
ADONA (919005-14-4)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440	<0.0025		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025			
PFOA (335-67-1)	<0.0005 mg/kg	TM440	0.00307		0.00415		0.00316		0.00466		0.00341		0.00313			
PFHxS (355-46-4)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
FBSA (30334-69-1)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01			
PFNA (375-95-1)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
PFHpS (375-92-8)	<0.0006 mg/kg	TM440	<0.0006		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006			
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440	<0.0009		<0.0009		<0.0009		<0.0009		<0.0009		<0.0009			
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440	<0.0044		<0.0044		<0.0044		<0.0044		<0.0044		<0.0044			
PFDA (335-76-2)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005			
Branched PFOS	<0.0006 mg/kg	TM440	<0.0006		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006			
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440	<0.0006		<0.0006		<0.0006		0.00152		0.000982		<0.0006			
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440	<0.0025		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025			

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref.	LP33-SP329	LP33-SP329	LP33-SP329	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S1	
#	ISO17025 accredited.		Depth (m)	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		Date Sampled	06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025
diss.filt	Dissolved / filtered sample.		Sample Time						
tot.unfilt	Total / unfiltered sample.		Date Received	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
*	Subcontracted - refer to subcontractor report for accreditation status.		SDG Ref	251009-16	251009-16	251009-16	251009-16	251009-16	251009-16
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)	32265584	32265586	32265588	32265566	32265570	32265572
***	6.2 FTAB (see appendix)		AGS Reference	ES	ES	ES	ES	ES	ESA1
1-4**	Sample deviation (see appendix)								
Component	LOD/Units	Method							
EiFOSAA (2991-50-6)	<0.0014 mg/kg	TM440	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	
PFUnA (2058-94-8)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9CI-PF3ONS (756426-58-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10:2 FTS (120226-60-0)	<0.0008 mg/kg	TM440	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
FHxSA (41997-13-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFNS (68259-12-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFDaA (307-55-1)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
PFDS (335-77-3)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
PFTrDA (72629-94-8)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
11CI-PF3OUdS (763051-92-9)	<0.0007 mg/kg	TM440	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	
PFUnDS (749786-16-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFTeA (376-06-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFOSA (754-91-6)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFDaS (79780-39-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFTrDS (174675-49-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
MeFOSE (24448-09-7)	<0.005 mg/kg	TM440	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PFHxDA (67905-19-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
N-MeFOSA (31506-32-8)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8:2 diPAP (678-41-1)	<0.0009 mg/kg	TM440	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	
EiFOSE (1691-99-2)	<0.005 mg/kg	TM440	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
N-EiFOSA (4151-50-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFODA (16517-11-6)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Total PFOS	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	0.00152	0.000982	<0.0006	
Total Identified PFAS	<0.051 mg/kg	TM440	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP328-S1 0.40 - 0.50 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265574 ESA2	LP33-SP328-S2 0.40 - 0.50 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265580 ESA1	LP33-SP328-S2 0.40 - 0.50 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265582 ESA2			
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	21	26	22				
Soil Organic Matter (SOM)	<0.35 %	TM132	4.45	4.93	5.02				
			#	#	#				
pH	1 pH Units	TM133	7	7.13	6.8				
			M	M	M				
PFBA (375-22-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFMOPrA (377-73-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440	<0.0008	<0.0008	<0.0008				
PFPA (2706-90-3)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440	<0.0018	<0.0018	<0.0018				
PFHxA (307-24-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFBS (375-73-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440	<0.001	<0.001	<0.001				
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
ADONA (919005-14-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025				
PFOA (335-67-1)	<0.0005 mg/kg	TM440	0.0021	0.00303	0.00299				
PFHxS (355-46-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
FBSA (30334-69-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440	<0.01	<0.01	<0.01				
PFNA (375-95-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
PFHpS (375-92-8)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006				
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440	<0.0009	<0.0009	<0.0009				
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440	<0.0044	<0.0044	<0.0044				
PFDA (335-76-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005				
Branched PFOS	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006				
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006				
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025				

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16

Report Number: 781068

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32265546	32265568	32265590	32265592	32265594	32265596	32265598	32265600	32265602	32265548
	LP33-SP314	LP33-SP314	LP33-SP314	LP33-SP316	LP33-SP316	LP33-SP316	LP33-SP319	LP33-SP319	LP33-SP319	LP33-SP320
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
Depth	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Type	PFAS in soils	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025
	pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
	Sample description	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025
	Total Organic Carbon	21-Oct-2025	14-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32265550	32265552	32265554	32265556	32265558	32265560	32265562	32265564	32265584	32265586
	LP33-SP320	LP33-SP320	LP33-SP321	LP33-SP321	LP33-SP321	LP33-SP327	LP33-SP327	LP33-SP327	LP33-SP329	LP33-SP329
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
Depth	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Type	PFAS in soils	14-Oct-2025	14-Oct-2025	14-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	14-Oct-2025
	pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
	Sample description	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025
	Total Organic Carbon	20-Oct-2025	21-Oct-2025	20-Oct-2025	20-Oct-2025	14-Oct-2025	20-Oct-2025	21-Oct-2025	16-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32265588	32265566	32265570	32265572	32265574	32265580	32265582
	LP33-SP329	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S2	LP33-SP328-S2
	ES	ES	ES	ESA1	ESA2	ESA1	ESA2
	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
Depth	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Type	PFAS in soils	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025
	pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
	Sample description	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025
	Total Organic Carbon	14-Oct-2025	20-Oct-2025	14-Oct-2025	21-Oct-2025	14-Oct-2025	21-Oct-2025



CERTIFICATE OF ANALYSIS

Validated

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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3276	QC 3275
10:2 FTS (Raw)	TM440	76.24 53.10 : 140.00	67.02 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	85.14 53.56 : 141.19	75.81 53.56 : 141.19
3:3 FTCA (Raw)	TM440	90.31 50.54 : 133.25	109.11 50.54 : 133.25
4:2 FTS (Raw)	TM440	95.72 56.34 : 145.91	85.44 56.34 : 145.91
5:3 FTCA (Raw)	TM440	86.97 52.66 : 130.08	83.68 52.66 : 130.08
6:2 FTAB (Raw)	TM440	40.11 38.50 : 101.50	27.22 38.50 : 101.50
6:2 FTS (Raw)	TM440	82.91 54.79 : 144.46	77.72 54.79 : 144.46
7:3 FTCA (Raw)	TM440	92.46 48.60 : 128.14	78.37 48.60 : 128.14
8:2 diPAP (Raw)	TM440	88.26 56.03 : 147.72	76.95 56.03 : 147.72
8:2 FTS (Raw)	TM440	83.74 55.74 : 146.96	76.67 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	87.88 54.59 : 143.91	84.76 54.59 : 143.91
ADONA (Raw)	TM440	92.8 54.01 : 132.33	89.02 54.01 : 132.33
Branched PFOS (Raw)	TM440	89.14 54.09 : 142.61	84.13 54.09 : 142.61
EtFOSAA (Raw)	TM440	81.52 52.48 : 138.36	82.56 52.48 : 138.36
EtFOSE (Raw)	TM440	97.28 57.05 : 145.29	87.22 57.05 : 145.29
FBFA (Raw)	TM440	92.22 49.51 : 125.13	90.53 49.51 : 125.13
FHxSA (Raw)	TM440	89.81 50.38 : 132.82	86.78 50.38 : 132.82
HFPO-DA (Raw)	TM440	99.95 53.47 : 140.98	94.54 53.47 : 140.98
HFPO-TA (Raw)	TM440	108.69 54.77 : 144.39	96.77 54.77 : 144.39
L-PFOS (Raw)	TM440	90.82 54.09 : 142.61	83.08 54.09 : 142.61
MeFOSAA (Raw)	TM440	87.35 53.02 : 139.78	79.52 53.02 : 139.78
MeFOSE (Raw)	TM440	87.71 54.99 : 144.97	80.97 54.99 : 144.97
N-EtFOSA (Raw)	TM440	90.54 59.56 : 132.93	80.84 59.56 : 132.93
NFDHA (Raw)	TM440	91.72 57.35 : 151.20	87.72 57.35 : 151.20
N-MeFOSA (Raw)	TM440	89.71 59.19 : 133.01	75.02 59.19 : 133.01
PFBA (Raw)	TM440	89.81 52.69 : 138.91	88.67 52.69 : 138.91



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PFAS in soils

		QC 3276	QC 3275
PFBS (Raw)	TM440	87.02 53.31 : 140.54	85.22 53.31 : 140.54
PFDA (Raw)	TM440	87.85 53.39 : 140.76	95.84 53.39 : 140.76
PFDoA (Raw)	TM440	89.66 52.85 : 139.34	84.85 52.85 : 139.34
PFDoS (Raw)	TM440	90.27 55.29 : 145.76	83.14 55.29 : 145.76
PFDS (Raw)	TM440	87.65 52.94 : 139.56	81.69 52.94 : 139.56
PFecHS (Raw)	TM440	87.69 50.75 : 133.80	80.14 50.75 : 133.80
PFEESA (Raw)	TM440	88.89 50.87 : 134.12	80.63 50.87 : 134.12
PFHpA (Raw)	TM440	97.29 52.61 : 138.69	89.23 52.61 : 138.69
PFHpS (Raw)	TM440	87.66 55.29 : 145.76	82.04 55.29 : 145.76
PFHxA (Raw)	TM440	90.83 54.05 : 142.50	84.92 54.05 : 142.50
PFHxDA (Raw)	TM440	89.78 52.03 : 137.17	82.73 52.03 : 137.17
PFHxS (Raw)	TM440	85.24 53.56 : 141.19	82.84 53.56 : 141.19
PFMOBA (Raw)	TM440	89.96 52.73 : 139.02	103.1 52.73 : 139.02
PFMOPra (Raw)	TM440	83.68 52.57 : 138.58	101.24 52.57 : 138.58
PFNA (Raw)	TM440	88.1 52.94 : 139.56	91.77 52.94 : 139.56
PFNS (Raw)	TM440	86.84 54.38 : 143.37	89.95 54.38 : 143.37
PFOA (Raw)	TM440	89.5 53.80 : 141.85	86.22 53.80 : 141.85
PFODA (Raw)	TM440	85.96 56.03 : 147.72	66.48 56.03 : 147.72
PFOSA (Raw)	TM440	91.84 53.10 : 140.00	81.59 53.10 : 140.00
PFPA (Raw)	TM440	88.88 53.89 : 142.06	84.2 53.89 : 142.06
PFPeS (Raw)	TM440	82.52 54.30 : 143.15	77.03 54.30 : 143.15
PFTeA (Raw)	TM440	100.96 53.06 : 139.89	97.5 53.06 : 139.89
PFTrDA (Raw)	TM440	98.74 51.70 : 136.30	95.72 51.70 : 136.30
PFTrDS (Raw)	TM440	80.95 56.24 : 148.26	76.15 56.24 : 148.26
PFUnA (Raw)	TM440	87.5 53.35 : 140.65	85.47 53.35 : 140.65
PFUnDS (Raw)	TM440	80.71 53.60 : 141.30	75.24 53.60 : 141.30

pH



CERTIFICATE OF ANALYSIS

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SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781068
Location: Thornton Phase 3

Superseded Report:

pH

Component	Method Code	QC 3295	QC 3291	QC 3203	QC 3205
pH	TM133	102.19 95.29 : 105.24	101.8 95.29 : 105.24	101.33 95.29 : 105.24	101.57 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3226	QC 3252	QC 3273	QC 3256	QC 3288	QC 3206
Total Organic Carbon	TM132	97.07 93.61 : 106.00	97.67 93.61 : 106.00	96.34 93.61 : 106.00	97.48 93.61 : 106.00	97.09 93.61 : 106.00	96.2 93.61 : 106.00

Component	Method Code	QC 3272
Total Organic Carbon	TM132	97.46 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
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Deeside
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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 24 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251009-16
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781238
Order Number: UK-70100310-403

This report has been revised and directly supersedes 781068 in its entirety.

We received 29 samples on Wednesday October 08, 2025 and 27 of these samples were scheduled for analysis which was completed on Wednesday October 22, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32265546	LP33-SP314	ES	0.00 - 0.10	06/10/2025
32265568	LP33-SP314	ES	0.30 - 0.40	06/10/2025
32265590	LP33-SP314	ES	0.40 - 0.50	06/10/2025
32265592	LP33-SP316	ES	0.00 - 0.10	06/10/2025
32265594	LP33-SP316	ES	0.20 - 0.30	06/10/2025
32265596	LP33-SP316	ES	0.40 - 0.50	06/10/2025
32265598	LP33-SP319	ES	0.10 - 0.20	06/10/2025
32265600	LP33-SP319	ES	0.30 - 0.40	06/10/2025
32265602	LP33-SP319	ES	0.50 - 0.60	06/10/2025
32265548	LP33-SP320	ES	0.00 - 0.10	06/10/2025
32265550	LP33-SP320	ES	0.20 - 0.30	06/10/2025
32265552	LP33-SP320	ES	0.40 - 0.50	06/10/2025
32265554	LP33-SP321	ES	0.10 - 0.20	06/10/2025
32265556	LP33-SP321	ES	0.20 - 0.30	06/10/2025
32265558	LP33-SP321	ES	0.50 - 0.60	06/10/2025
32265560	LP33-SP327	ES	0.10 - 0.20	06/10/2025
32265562	LP33-SP327	ES	0.30 - 0.40	06/10/2025
32265564	LP33-SP327	ES	0.50 - 0.60	06/10/2025
32265584	LP33-SP329	ES	0.10 - 0.20	06/10/2025
32265586	LP33-SP329	ES	0.30 - 0.40	06/10/2025
32265588	LP33-SP329	ES	0.50 - 0.60	06/10/2025
32265566	LP33-SP328-S1	ES	0.00 - 0.10	06/10/2025
32265570	LP33-SP328-S1	ES	0.20 - 0.30	06/10/2025
32265572	LP33-SP328-S1	ESA1	0.40 - 0.50	06/10/2025
32265574	LP33-SP328-S1	ESA2	0.40 - 0.50	06/10/2025
32265576	LP33-SP328-S2	ES	0.00 - 0.10	06/10/2025
32265578	LP33-SP328-S2	ES	0.20 - 0.30	06/10/2025
32265580	LP33-SP328-S2	ESA1	0.40 - 0.50	06/10/2025
32265582	LP33-SP328-S2	ESA2	0.40 - 0.50	06/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend X Test N No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32265584	LP33-SP329	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32265564	LP33-SP327	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32265562	LP33-SP327	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32265560	LP33-SP327	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32265558	LP33-SP321	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32265556	LP33-SP321	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
32265554	LP33-SP321	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S							
32265552	LP33-SP320	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S							
32265550	LP33-SP320	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S							
32265548	LP33-SP320	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S							
32265602	LP33-SP319	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S							
32265600	LP33-SP319	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S							
32265598	LP33-SP319	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S							
32265596	LP33-SP316	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S							
32265594	LP33-SP316	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S							
32265592	LP33-SP316	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S							
32265590	LP33-SP314	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S							
32265568	LP33-SP314	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S							
32265546	LP33-SP314	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S							
PFAS in soils	All	NDPs: 0 Tests: 27										
pH	All	NDPs: 0 Tests: 27										
Sample description	All	NDPs: 0 Tests: 27										
Total Organic Carbon	All	NDPs: 0 Tests: 27										

32265582	LP33-SP328-S2	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X		X		X
32265580	LP33-SP328-S2	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X	X	X	X	X
32265574	LP33-SP328-S1	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X	X	X		X
32265572	LP33-SP328-S1	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X	X	X		X
32265570	LP33-SP328-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X	X	X	X	X
32265566	LP33-SP328-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X	X	X		X
32265588	LP33-SP329	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X	X	X	X	X
32265586	LP33-SP329	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X	X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32265546	LP33-SP314	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32265568	LP33-SP314	0.30 - 0.40	Dark Brown	Clay Loam	Stones	Vegetation
32265590	LP33-SP314	0.40 - 0.50	Dark Brown	Clay Loam	Stones	Vegetation
32265592	LP33-SP316	0.00 - 0.10	Light Brown	Silt Loam	Stones	Vegetation
32265594	LP33-SP316	0.20 - 0.30	Dark Brown	Clay Loam	Stones	Vegetation
32265596	LP33-SP316	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265598	LP33-SP319	0.10 - 0.20	Light Brown	Sandy Silt Loam	Stones	Vegetation
32265600	LP33-SP319	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265602	LP33-SP319	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265548	LP33-SP320	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265550	LP33-SP320	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265552	LP33-SP320	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265554	LP33-SP321	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32265556	LP33-SP321	0.20 - 0.30	Light Brown	Sandy Loam	Stones	Vegetation
32265558	LP33-SP321	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None
32265560	LP33-SP327	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32265562	LP33-SP327	0.30 - 0.40	Dark Brown	Silty Clay Loam	Glass & Stones	Vegetation
32265564	LP33-SP327	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32265584	LP33-SP329	0.10 - 0.20	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265586	LP33-SP329	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32265588	LP33-SP329	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32265566	LP33-SP328-S1	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32265570	LP33-SP328-S1	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32265572	LP33-SP328-S1	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32265574	LP33-SP328-S1	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None
32265580	LP33-SP328-S2	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32265582	LP33-SP328-S2	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Results Legend			Customer Sample Ref.	LP33-SP314	LP33-SP314	LP33-SP314	LP33-SP316	LP33-SP316	LP33-SP316
# ISO17025 accredited.				0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
*** 6:2 FTAB (see appendix)				251009-16	251009-16	251009-16	251009-16	251009-16	251009-16
1-4*§@Sample deviation (see appendix)				32265546	32265568	32265590	32265592	32265594	32265596
			ES	ES	ES	ES	ES	ES	
			ES	ES	ES	ES	ES	ES	
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	33	16	23	48	30	29	
Soil Organic Matter (SOM)	<0.35 %	TM132	8.45	2.4	3.38	18.3	7.46	6.12	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.09	7.32	7.37	7.64	7.62	7.54	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	6	3.11	3.96	4.49	6.23	4.13	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	2.44	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Results Legend			Customer Sample Ref.		LP33-SP319	LP33-SP319	LP33-SP319	LP33-SP320	LP33-SP320	LP33-SP320
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	0.10 - 0.20 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265598 ES	0.30 - 0.40 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265600 ES	0.50 - 0.60 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265602 ES	0.00 - 0.10 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265548 ES	0.20 - 0.30 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265550 ES	0.40 - 0.50 Soil/Solid (S) 06/10/2025 08/10/2025 251009-16 32265552 ES		
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024	46	35	24	31	31	24		
Soil Organic Matter (SOM)	<0.35 %	TM132	21.7	13.6	5.5	11	10.2	4.34		
pH	1 pH Units	TM133	7.68	7.51	7.41	7.53	7.55	7.58		
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PfMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.34	5.87	8.11	6.45	11.6	7.59		
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Results Legend			Customer Sample Ref.	LP33-SP321	LP33-SP321	LP33-SP321	LP33-SP327	LP33-SP327	LP33-SP327
# ISO17025 accredited.				0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025
diss.filt Dissolved / filtered sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
tot.unfiltTotal / unfiltered sample.				251009-16	251009-16	251009-16	251009-16	251009-16	251009-16
* Subcontracted - refer to subcontractor report for accreditation status.				32265554	32265556	32265558	32265560	32265562	32265564
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*§@Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	21	21	15	30	25	21	
Soil Organic Matter (SOM)	<0.35 %	TM132	6.79	7.14	2.88	8.17	4.52	3.64	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.09	6.71	7.19	7.57	7.44	7.41	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	9.94	10.1	5.89	3.97	8.26	5.23	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Results Legend			Customer Sample Ref.		LP33-SP329	LP33-SP329	LP33-SP329	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025	06/10/2025
diss.filt	Dissolved / filtered sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
tot.unfilt	Total / unfiltered sample.				251009-16	251009-16	251009-16	251009-16	251009-16	251009-16
* Subcontracted - refer to subcontractor report for accreditation status.					32265584	32265586	32265588	32265566	32265570	32265572
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			25	14	18	25	22	25
Soil Organic Matter (SOM)	<0.35 %	TM132			6.96	2.21	2.97	6.02	4.62	4.14
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.23	7.54	7.74	7.08	6.97	7.03
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.07	4.15	3.16	4.66	3.41	3.13
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	1.52	0.982	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Results Legend			Customer Sample Ref.	LP33-SP328-S1	LP33-SP328-S2	LP33-SP328-S2			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**@Sample deviation (see appendix)									
Component	LOD/Units	Method	0.40 - 0.50 Soil/Solid (S) 06/10/2025	0.40 - 0.50 Soil/Solid (S) 06/10/2025	0.40 - 0.50 Soil/Solid (S) 06/10/2025				
Moisture Content Ratio (% of as received sample)	%	PM024	21	26	22				
Soil Organic Matter (SOM)	<0.35 %	TM132	4.45 #	4.93 #	5.02 #				
pH	1 pH Units	TM133	7 M	7.13 M	6.8 M				
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.1	3.03	2.99				
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16

Report Number: 781238

Superseded Report: 781068

Client Ref.: UK-70100310

Location: Thornton Phase 3

Data Amendment

Sample No. :	All	Date of Amendment :	24/10/2025	Origin:	Client Request
Sample Ref.	Reason	Previous	Amended		
All	Client Request	Reporting Units - Default	All in ug/kg & ug/l		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16

Report Number: 781238

Superseded Report: 781068

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32265546	32265568	32265590	32265592	32265594	32265596	32265598	32265600	32265602	32265548
	LP33-SP314	LP33-SP314	LP33-SP314	LP33-SP316	LP33-SP316	LP33-SP316	LP33-SP319	LP33-SP319	LP33-SP319	LP33-SP320
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025	14-Oct-2025
pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025
Total Organic Carbon	21-Oct-2025	14-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32265550	32265552	32265554	32265556	32265558	32265560	32265562	32265564	32265584	32265586
	LP33-SP320	LP33-SP320	LP33-SP321	LP33-SP321	LP33-SP321	LP33-SP327	LP33-SP327	LP33-SP327	LP33-SP329	LP33-SP329
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	14-Oct-2025	14-Oct-2025	14-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	14-Oct-2025	13-Oct-2025
pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025
Total Organic Carbon	20-Oct-2025	21-Oct-2025	20-Oct-2025	20-Oct-2025	14-Oct-2025	20-Oct-2025	21-Oct-2025	16-Oct-2025	21-Oct-2025	14-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32265588	32265566	32265570	32265572	32265574	32265580	32265582
	LP33-SP329	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S1	LP33-SP328-S2	LP33-SP328-S2
	ES	ES	ES	ESA1	ESA2	ESA1	ESA2
	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025
pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025	09-Oct-2025
Total Organic Carbon	14-Oct-2025	20-Oct-2025	14-Oct-2025	21-Oct-2025	14-Oct-2025	21-Oct-2025	14-Oct-2025



CERTIFICATE OF ANALYSIS

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SDG: 251009-16
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Report Number: 781238
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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3276	QC 3275
10:2 FTS (Raw)	TM440	76.24 53.10 : 140.00	67.02 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	85.14 53.56 : 141.19	75.81 53.56 : 141.19
3:3 FTCA (Raw)	TM440	90.31 50.54 : 133.25	109.11 50.54 : 133.25
4:2 FTS (Raw)	TM440	95.72 56.34 : 145.91	85.44 56.34 : 145.91
5:3 FTCA (Raw)	TM440	86.97 52.66 : 130.08	83.68 52.66 : 130.08
6:2 FTAB (Raw)	TM440	40.11 38.50 : 101.50	27.22 38.50 : 101.50
6:2 FTS (Raw)	TM440	82.91 54.79 : 144.46	77.72 54.79 : 144.46
7:3 FTCA (Raw)	TM440	92.46 48.60 : 128.14	78.37 48.60 : 128.14
8:2 diPAP (Raw)	TM440	88.26 56.03 : 147.72	76.95 56.03 : 147.72
8:2 FTS (Raw)	TM440	83.74 55.74 : 146.96	76.67 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	87.88 54.59 : 143.91	84.76 54.59 : 143.91
ADONA (Raw)	TM440	92.8 54.01 : 132.33	89.02 54.01 : 132.33
Branched PFOS (Raw)	TM440	89.14 54.09 : 142.61	84.13 54.09 : 142.61
EtFOSAA (Raw)	TM440	81.52 52.48 : 138.36	82.56 52.48 : 138.36
EtFOSE (Raw)	TM440	97.28 57.05 : 145.29	87.22 57.05 : 145.29
FBSA (Raw)	TM440	92.22 49.51 : 125.13	90.53 49.51 : 125.13
FHxSA (Raw)	TM440	89.81 50.38 : 132.82	86.78 50.38 : 132.82
HFPO-DA (Raw)	TM440	99.95 53.47 : 140.98	94.54 53.47 : 140.98
HFPO-TA (Raw)	TM440	108.69 54.77 : 144.39	96.77 54.77 : 144.39
L-PFOS (Raw)	TM440	90.82 54.09 : 142.61	83.08 54.09 : 142.61
MeFOSAA (Raw)	TM440	87.35 53.02 : 139.78	79.52 53.02 : 139.78
MeFOSE (Raw)	TM440	87.71 54.99 : 144.97	80.97 54.99 : 144.97
N-EtFOSA (Raw)	TM440	90.54 59.56 : 132.93	80.84 59.56 : 132.93
NFDHA (Raw)	TM440	91.72 57.35 : 151.20	87.72 57.35 : 151.20
N-MeFOSA (Raw)	TM440	89.71 59.19 : 133.01	75.02 59.19 : 133.01
PFBA (Raw)	TM440	89.81 52.69 : 138.91	88.67 52.69 : 138.91



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Report Number: 781238
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PFAS in soils

		QC 3276	QC 3275
PFBS (Raw)	TM440	87.02 53.31 : 140.54	85.22 53.31 : 140.54
PFDA (Raw)	TM440	87.85 53.39 : 140.76	95.84 53.39 : 140.76
PFDoA (Raw)	TM440	89.66 52.85 : 139.34	84.85 52.85 : 139.34
PFDoS (Raw)	TM440	90.27 55.29 : 145.76	83.14 55.29 : 145.76
PFDS (Raw)	TM440	87.65 52.94 : 139.56	81.69 52.94 : 139.56
PFecHS (Raw)	TM440	87.69 50.75 : 133.80	80.14 50.75 : 133.80
PFEESA (Raw)	TM440	88.89 50.87 : 134.12	80.63 50.87 : 134.12
PFHpA (Raw)	TM440	97.29 52.61 : 138.69	89.23 52.61 : 138.69
PFHpS (Raw)	TM440	87.66 55.29 : 145.76	82.04 55.29 : 145.76
PFHxA (Raw)	TM440	90.83 54.05 : 142.50	84.92 54.05 : 142.50
PFHxDA (Raw)	TM440	89.78 52.03 : 137.17	82.73 52.03 : 137.17
PFHxS (Raw)	TM440	85.24 53.56 : 141.19	82.84 53.56 : 141.19
PFMOBA (Raw)	TM440	89.96 52.73 : 139.02	103.1 52.73 : 139.02
PFMOPra (Raw)	TM440	83.68 52.57 : 138.58	101.24 52.57 : 138.58
PFNA (Raw)	TM440	88.1 52.94 : 139.56	91.77 52.94 : 139.56
PFNS (Raw)	TM440	86.84 54.38 : 143.37	89.95 54.38 : 143.37
PFOA (Raw)	TM440	89.5 53.80 : 141.85	86.22 53.80 : 141.85
PFODA (Raw)	TM440	85.96 56.03 : 147.72	66.48 56.03 : 147.72
PFOSA (Raw)	TM440	91.84 53.10 : 140.00	81.59 53.10 : 140.00
PFPA (Raw)	TM440	88.88 53.89 : 142.06	84.2 53.89 : 142.06
PFPeS (Raw)	TM440	82.52 54.30 : 143.15	77.03 54.30 : 143.15
PFTeA (Raw)	TM440	100.96 53.06 : 139.89	97.5 53.06 : 139.89
PFTrDA (Raw)	TM440	98.74 51.70 : 136.30	95.72 51.70 : 136.30
PFTrDS (Raw)	TM440	80.95 56.24 : 148.26	76.15 56.24 : 148.26
PFUnA (Raw)	TM440	87.5 53.35 : 140.65	85.47 53.35 : 140.65
PFUnDS (Raw)	TM440	80.71 53.60 : 141.30	75.24 53.60 : 141.30

pH



CERTIFICATE OF ANALYSIS

Validated

SDG: 251009-16
Client Ref.: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

pH

Component	Method Code	QC 3295	QC 3291	QC 3203	QC 3205
pH	TM133	102.19 95.29 : 105.24	101.8 95.29 : 105.24	101.33 95.29 : 105.24	101.57 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3226	QC 3252	QC 3273	QC 3256	QC 3288	QC 3206
Total Organic Carbon	TM132	97.07 93.61 : 106.00	97.67 93.61 : 106.00	96.34 93.61 : 106.00	97.48 93.61 : 106.00	97.09 93.61 : 106.00	96.2 93.61 : 106.00

Component	Method Code	QC 3272
Total Organic Carbon	TM132	97.46 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251009-16
Client Ref: UK-70100310

Report Number: 781238
Location: Thornton Phase 3

Superseded Report: 781068

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	22 October 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251010-37
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	781069
Order Number:	UK-70100310

We received 31 samples on Thursday October 09, 2025 and 29 of these samples were scheduled for analysis which was completed on Wednesday October 22, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32272396	LP33-SP306		0.10 - 0.20	07/10/2025
32272400	LP33-SP306	ES	0.30 - 0.40	07/10/2025
32272426	LP33-SP306	ES	0.50 - 0.60	07/10/2025
32272402	LP33-SP312	ES	0.00 - 0.10	07/10/2025
32272404	LP33-SP312	WT	0.00 - 0.10	07/10/2025
32272408	LP33-SP312	ES	0.20 - 0.30	07/10/2025
32272410	LP33-SP312	ES	0.40 - 0.50	07/10/2025
32272412	LP33-SP313	ES	0.10 - 0.20	07/10/2025
32272414	LP33-SP313	ES	0.20 - 0.30	07/10/2025
32272416	LP33-SP313	ES	0.50 - 0.60	07/10/2025
32272418	LP33-SP315	WT	0.00 - 0.00	07/10/2025
32272422	LP33-SP315	ES	0.10 - 0.20	07/10/2025
32272424	LP33-SP315	ES	0.30 - 0.40	07/10/2025
32272428	LP33-SP315	ES	0.50 - 0.60	07/10/2025
32272430	LP33-SP323	ES	0.00 - 0.10	07/10/2025
32272432	LP33-SP323	ES	0.30 - 0.40	07/10/2025
32272434	LP33-SP323	ES	0.40 - 0.50	07/10/2025
32272436	LP33-SP324	ES	0.00 - 0.10	07/10/2025
32272438	LP33-SP324	ES	0.20 - 0.30	07/10/2025
32272440	LP33-SP324	ES	0.40 - 0.50	07/10/2025
32272442	LP33-SP325	ES	0.10 - 0.20	07/10/2025
32272444	LP33-SP325	ES	0.20 - 0.30	07/10/2025
32272446	LP33-SP325	ES	0.50 - 0.60	07/10/2025
32272448	LP33-SP308-S1	ESA1	0.00 - 0.10	07/10/2025
32272450	LP33-SP308-S1	ESA2	0.00 - 0.10	07/10/2025
32272452	LP33-SP308-S1	ES	0.20 - 0.30	07/10/2025
32272398	LP33-SP308-S1		0.40 - 0.50	07/10/2025
32272454	LP33-SP308-S2	ESA1	0.00 - 0.10	07/10/2025
32272456	LP33-SP308-S2	ESA2	0.00 - 0.10	07/10/2025
32272458	LP33-SP308-S2	ES	0.20 - 0.30	07/10/2025
32272460	LP33-SP308-S2	ES	0.40 - 0.50	07/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32272438	LP33-SP324	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32272436	LP33-SP324	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32272434	LP33-SP323	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32272432	LP33-SP323	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32272430	LP33-SP323	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32272428	LP33-SP315	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32272424	LP33-SP315	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32272422	LP33-SP315	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32272418	LP33-SP315	WT	0.00 - 0.00	50ml digitube (ALE001)	PW						
	32272416	LP33-SP313	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32272414	LP33-SP313	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32272412	LP33-SP313	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32272410	LP33-SP312	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32272408	LP33-SP312	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32272404	LP33-SP312	WT	0.00 - 0.10	50ml digitube (ALE001)	PW						
	32272402	LP33-SP312	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32272426	LP33-SP306	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32272400	LP33-SP306	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32272396	LP33-SP306		0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS in soils	All	NDPs: 0 Tests: 27	X	X	X	X		X	X	X	X	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2					X		X			
pH	All	NDPs: 0 Tests: 27	X	X	X	X		X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 27	X	X	X	X		X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 27	X	X	X	X		X	X	X	X	X

32272456	LP33-SP308-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272454	LP33-SP308-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272398	LP33-SP308-S1		0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272452	LP33-SP308-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272450	LP33-SP308-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272448	LP33-SP308-S1	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272446	LP33-SP325	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272444	LP33-SP325	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272442	LP33-SP325	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272440	LP33-SP324	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32272396	LP33-SP306	0.10 - 0.20	Dark Brown	Sandy Clay	Stones	Vegetation
32272400	LP33-SP306	0.30 - 0.40	Light Brown	Sandy Clay	Stones	Vegetation
32272426	LP33-SP306	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272402	LP33-SP312	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272408	LP33-SP312	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272410	LP33-SP312	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32272412	LP33-SP313	0.10 - 0.20	Light Brown	Sandy Clay	Stones	Vegetation
32272414	LP33-SP313	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272416	LP33-SP313	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272422	LP33-SP315	0.10 - 0.20	Light Brown	Sandy Clay	Stones	Vegetation
32272424	LP33-SP315	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32272428	LP33-SP315	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272430	LP33-SP323	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272432	LP33-SP323	0.30 - 0.40	Light Brown	Sandy Clay	Stones	Vegetation
32272434	LP33-SP323	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32272436	LP33-SP324	0.00 - 0.10	Light Brown	Silty Clay Loam	Vegetation	None
32272438	LP33-SP324	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32272440	LP33-SP324	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32272442	LP33-SP325	0.10 - 0.20	Light Brown	Sandy Clay	Stones	Vegetation
32272444	LP33-SP325	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272446	LP33-SP325	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272398	LP33-SP308-S1	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32272448	LP33-SP308-S1	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272450	LP33-SP308-S1	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32272452	LP33-SP308-S1	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272454	LP33-SP308-S2	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272456	LP33-SP308-S2	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20 Soil/Solid (S) 07/10/2025	0.30 - 0.40 Soil/Solid (S) 07/10/2025	0.50 - 0.60 Soil/Solid (S) 07/10/2025	0.00 - 0.10 Soil/Solid (S) 07/10/2025	0.00 - 0.10 Process Water (PR) 07/10/2025	0.20 - 0.30 Soil/Solid (S) 07/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002	
PFMOPrA (377-73-1)	<0.001 µg/l	TM434						<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065	
Branched PFOS	<0.00065 µg/l	TM434						<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002	
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
* Subcontracted - refer to subcontractor report for accreditation status.					32272396	32272400	32272426	32272402	32272404	32272408
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
PFechS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024			19	13	15	26		20
Soil Organic Matter (SOM)	<0.35 %	TM132			3.21	1.07	1.19	6.14		3.48
pH	1 pH Units	TM133			6.97	7.49	7.57	6.81		6.99
PFBA (375-22-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFMOPRA (377-73-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440			<0.0008	<0.0008	<0.0008	<0.0008		<0.0008
PFPA (2706-90-3)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440			<0.0018	<0.0018	<0.0018	<0.0018		<0.0018
PFHxA (307-24-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFBS (375-73-5)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440			<0.001	<0.001	<0.001	<0.001		<0.001
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
* Subcontracted - refer to subcontractor report for accreditation status.					32272396	32272400	32272426	32272402	32272404	32272408
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
ADONA (919005-14-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
PFOA (335-67-1)	<0.0005 mg/kg	TM440			0.00155	0.0017	0.00116	0.00219		0.0024
PFHxS (355-46-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
FBSA (30334-69-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440			<0.01	<0.01	<0.01	<0.01		<0.01
PFNA (375-95-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFHpS (375-92-8)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440			<0.0009	<0.0009	<0.0009	<0.0009		<0.0009
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440			<0.0044	<0.0044	<0.0044	<0.0044		<0.0044
PFDA (335-76-2)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
Branched PFOS	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	0.00174		0.00125
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
EtFOSAA (2991-50-6)	<0.0014 mg/kg	TM440			<0.0014	<0.0014	<0.0014	<0.0014		<0.0014
PFUnA (2058-94-8)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9Cl-PF3ONS (756426-58-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10:2 FTS (120226-60-0)	<0.0008 mg/kg	TM440			<0.0008	<0.0008	<0.0008	<0.0008		<0.0008
FHxSA (41997-13-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFNS (68259-12-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFDoA (307-55-1)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
PFDS (335-77-3)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
PFTrDA (72629-94-8)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
11Cl-PF3OUdS (763051-92-9)	<0.0007 mg/kg	TM440			<0.0007	<0.0007	<0.0007	<0.0007		<0.0007
PFUnDS (749786-16-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFTeA (376-06-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFOSA (754-91-6)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFDoS (79780-39-5)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFTrDS (174675-49-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313	LP33-SP315	LP33-SP315
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
Subcontracted - refer to subcontractor report for accreditation status.					32272410	32272412	32272414	32272416	32272418	32272422
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WT	ES
*** 6.2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	◆
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	◆
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313	LP33-SP315	LP33-SP315
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 07/10/2025	0.10 - 0.20 Soil/Solid (S) 07/10/2025	0.20 - 0.30 Soil/Solid (S) 07/10/2025	0.50 - 0.60 Soil/Solid (S) 07/10/2025	0.00 - 0.00 Process Water (PR) 07/10/2025	0.10 - 0.20 Soil/Solid (S) 07/10/2025
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					09/10/2025 251010-37 32272410 ES	09/10/2025 251010-37 32272412 ES	09/10/2025 251010-37 32272414 ES	09/10/2025 251010-37 32272416 ES	09/10/2025 251010-37 32272418 WT	09/10/2025 251010-37 32272422 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
PFechS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	21	24	14	26				26
Soil Organic Matter (SOM)	<0.35 %	TM132	3.48	4.24	1.14	4.52				5.57
pH	1 pH Units	TM133	7.25	6.49	6.79	6.97				7.35
PFBA (375-22-4)	<0.0005 mg/kg	TM440	<0.0005	0.00726	<0.0005	<0.0005				<0.0005
PFMOPRA (377-73-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440	<0.0008	<0.0008	<0.0008	<0.0008				<0.0008
PFPA (2706-90-3)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440	<0.0018	<0.0018	<0.0018	<0.0018				<0.0018
PFHxA (307-24-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
PFBS (375-73-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440	<0.001	<0.001	<0.001	<0.001				<0.001
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313	LP33-SP315	LP33-SP315
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM440	0.40 - 0.50 Soil/Solid (S) 07/10/2025	0.10 - 0.20 Soil/Solid (S) 07/10/2025	0.20 - 0.30 Soil/Solid (S) 07/10/2025	0.50 - 0.60 Soil/Solid (S) 07/10/2025	0.00 - 0.00 Process Water (PR) 07/10/2025	0.10 - 0.20 Soil/Solid (S) 07/10/2025
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					09/10/2025 251010-37 32272410 ES	09/10/2025 251010-37 32272412 ES	09/10/2025 251010-37 32272414 ES	09/10/2025 251010-37 32272416 ES	09/10/2025 251010-37 32272418 WT	09/10/2025 251010-37 32272422 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
ADONA (919005-14-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
PFOA (335-67-1)	<0.0005 mg/kg	TM440			0.00595	0.00484	0.00246	0.00283		0.00422
PFHxS (355-46-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
FBSA (30334-69-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440			<0.01	<0.01	<0.01	<0.01		<0.01
PFNA (375-95-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFHpS (375-92-8)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440			<0.0009	<0.0009	<0.0009	<0.0009		<0.0009
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440			<0.0044	<0.0044	<0.0044	<0.0044		<0.0044
PFDA (335-76-2)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
Branched PFOS	<0.0006 mg/kg	TM440			<0.0006	0.00396	0.00081	<0.0006		<0.0006
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440			<0.0006	0.00604	0.00114	<0.0006		0.00252
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440			<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
EtFOSAA (2991-50-6)	<0.0014 mg/kg	TM440			<0.0014	<0.0014	<0.0014	<0.0014		<0.0014
PFUnA (2058-94-8)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
9Cl-PF3ONS (756426-58-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10:2 FTS (120226-60-0)	<0.0008 mg/kg	TM440			<0.0008	<0.0008	<0.0008	<0.0008		<0.0008
FHxSA (41997-13-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFNS (68259-12-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFDoA (307-55-1)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
PFDS (335-77-3)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
PFTrDA (72629-94-8)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006		<0.0006
11Cl-PF3OUdS (763051-92-9)	<0.0007 mg/kg	TM440			<0.0007	<0.0007	<0.0007	<0.0007		<0.0007
PFUnDS (749786-16-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFTeA (376-06-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFOSA (754-91-6)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFDoS (79780-39-5)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
PFTrDS (174675-49-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005		<0.0005

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	LP33-SP315	LP33-SP315	LP33-SP323	LP33-SP323	LP33-SP323	LP33-SP324
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
		Depth (m)	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
		Date Sampled	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	
		Sample Time							
		Date Received	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	
		SDG Ref	251010-37	251010-37	251010-37	251010-37	251010-37	251010-37	
		Lab Sample No.(s)	32272424	32272428	32272430	32272432	32272434	32272436	
		AGS Reference	ES	ES	ES	ES	ES	ES	
Component	LOD/Units	Method	25	11	25	17	19	22	
Moisture Content Ratio (% of as received sample)	%	PM024							
Soil Organic Matter (SOM)	<0.35 %	TM132	9.46	1.11	5.57	2.22	2.57	1.9	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.49	7.73	7.03	7.29	7.25	8.48	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFMOPrA (377-73-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
PFPA (2706-90-3)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	
PFHxA (307-24-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFBS (375-73-5)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
ADONA (919005-14-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
PFOA (335-67-1)	<0.0005 mg/kg	TM440	0.00408	0.00377	0.000829	0.0018	0.00197	<0.0005	
PFHxS (355-46-4)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
FBSA (30334-69-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PFNA (375-95-1)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFHpS (375-92-8)	<0.0006 mg/kg	TM440	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	
PFDA (335-76-2)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Branched PFOS	<0.0006 mg/kg	TM440	0.00113	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440	0.00382	<0.0006	0.00269	<0.0006	<0.0006	0.000989	
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP324		LP33-SP324		LP33-SP325		LP33-SP325		LP33-SP325		LP33-SP308-S1	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 07/10/2025		0.40 - 0.50 Soil/Solid (S) 07/10/2025		0.10 - 0.20 Soil/Solid (S) 07/10/2025		0.20 - 0.30 Soil/Solid (S) 07/10/2025		0.50 - 0.60 Soil/Solid (S) 07/10/2025		0.00 - 0.10 Soil/Solid (S) 07/10/2025			
M	mCERTS accredited.		09/10/2025 251010-37		09/10/2025 251010-37		09/10/2025 251010-37		09/10/2025 251010-37		09/10/2025 251010-37		09/10/2025 251010-37			
aq	Aqueous / settled sample.		32272438 ES		32272440 ES		32272442 ES		32272444 ES		32272446 ES		32272448 ESA1			
diss.filt	Dissolved / filtered sample.															
tot.unfilt	Total / unfiltered sample.															
*	Subcontracted - refer to subcontractor report for accreditation status.															
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery															
***	6:2 FTAB (see appendix)															
1-4**§@	Sample deviation (see appendix)															
Component		LOD/Units	Method													
Moisture Content Ratio (% of as received sample)		%	PM024		28		21		28		17		25		22	
Soil Organic Matter (SOM)		<0.35 %	TM132		4.74		2.38		5.05		1.84		4.12		3.64	
pH		1 pH Units	TM133		7.58		7.62		7.49		7.69		7.01		6.44	
PFBA (375-22-4)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFMOPrA (377-73-1)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
3:3 FTCA (356-02-5)		<0.0008 mg/kg	TM440		<0.0008		<0.0008		<0.0008		<0.0008		<0.0008		<0.0008	
PFPA (2706-90-3)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFMOBA (863090-89-5)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
4:2 FTS (757124-72-4)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
NFDHA (151772-58-6)		<0.0018 mg/kg	TM440		<0.0018		<0.0018		<0.0018		<0.0018		<0.0018		<0.0018	
PFHxA (307-24-4)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFBS (375-73-5)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
HFPO-DA (13252-13-6)		<0.001 mg/kg	TM440		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
PFEESA (113507-82-7)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFHpA (375-85-9) (18)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		0.000829	
PFPeS (2706-91-4)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
ADONA (919005-14-4)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
6:2 FTS (27619-97-2)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
5:3 FTCA (914637-49-3)		<0.0025 mg/kg	TM440		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025	
PFOA (335-67-1)		<0.0005 mg/kg	TM440		0.00155		0.00261		0.00509		0.00526		0.0193		0.0143	
PFHxS (355-46-4)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
FBSA (30334-69-1)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
6:2 FTAB (34455-29-3)***		<0.01 mg/kg	TM440		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
PFNA (375-95-1)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFecHS (133201-07-7)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
PFHpS (375-92-8)		<0.0006 mg/kg	TM440		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006		<0.0006	
8:2 FTS (39108-34-4)		<0.0009 mg/kg	TM440		<0.0009		<0.0009		<0.0009		<0.0009		<0.0009		<0.0009	
HFPO-TA (13252-14-7)		<0.0044 mg/kg	TM440		<0.0044		<0.0044		<0.0044		<0.0044		<0.0044		<0.0044	
PFDA (335-76-2)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
MeFOSAA (2355-31-9)		<0.0005 mg/kg	TM440		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005		<0.0005	
Branched PFOS		<0.0006 mg/kg	TM440		0.00121		0.00117		<0.0006		<0.0006		<0.0006		<0.0006	
Linear PFOS (1763-23-1)		<0.0006 mg/kg	TM440		0.00476		0.00175		0.00142		0.00108		<0.0006		0.00193	
7:3 FTCA (812-70-4)		<0.0025 mg/kg	TM440		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025		<0.0025	



CERTIFICATE OF ANALYSIS

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SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S2	LP33-SP308-S2	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	
* Subcontracted - refer to subcontractor report for accreditation status.					32272450	32272452	32272398	32272454	32272456	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ES		ESA1	ESA2	
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			26	17	19	23	34	
Soil Organic Matter (SOM)	<0.35 %	TM132			4.81	1.83	2.55	3.34	6.43	
					#	#	#	#	#	
pH	1 pH Units	TM133			6.68	7.33	7.7	6.77	6.61	
					M	M	M	M	M	
PFBA (375-22-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFMOPra (377-73-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3:3 FTCA (356-02-5)	<0.0008 mg/kg	TM440			<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
PFPA (2706-90-3)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFMOBA (863090-89-5)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4:2 FTS (757124-72-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
NFDHA (151772-58-6)	<0.0018 mg/kg	TM440			<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	
PFHxA (307-24-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFBS (375-73-5)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
HFPO-DA (13252-13-6)	<0.001 mg/kg	TM440			<0.001	<0.001	<0.001	<0.001	<0.001	
PFEESA (113507-82-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFHpA (375-85-9) (18)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFPeS (2706-91-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
ADONA (919005-14-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 FTS (27619-97-2)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
5:3 FTCA (914637-49-3)	<0.0025 mg/kg	TM440			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
PFOA (335-67-1)	<0.0005 mg/kg	TM440			0.00555	0.0062	0.00664	0.00448	0.00386	
PFHxS (355-46-4)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
FBSA (30334-69-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 FTAB (34455-29-3)***	<0.01 mg/kg	TM440			<0.01	<0.01	<0.01	<0.01	<0.01	
PFNA (375-95-1)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFecHS (133201-07-7)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
PFHpS (375-92-8)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
8:2 FTS (39108-34-4)	<0.0009 mg/kg	TM440			<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	
HFPO-TA (13252-14-7)	<0.0044 mg/kg	TM440			<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	
PFDA (335-76-2)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
MeFOSAA (2355-31-9)	<0.0005 mg/kg	TM440			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Branched PFOS	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Linear PFOS (1763-23-1)	<0.0006 mg/kg	TM440			<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
7:3 FTCA (812-70-4)	<0.0025 mg/kg	TM440			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	



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Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32272396	32272400	32272426	32272402	32272404	32272408	32272410	32272412	32272414	32272416
	LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312	LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313
		ES	ES	ES	WT	ES	ES	ES	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025		15-Oct-2025	15-Oct-2025	16-Oct-2025	15-Oct-2025	15-Oct-2025
PFAS Liquids (Full Suite)					21-Oct-2025					
pH	17-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025		15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	13-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025		10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025
Total Organic Carbon	22-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025		21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32272418	32272422	32272424	32272428	32272430	32272432	32272434	32272436	32272438	32272440
	LP33-SP315	LP33-SP315	LP33-SP315	LP33-SP315	LP33-SP323	LP33-SP323	LP33-SP323	LP33-SP324	LP33-SP324	LP33-SP324
	WT	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.00 - 0.00	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
PFAS Liquids (Full Suite)	21-Oct-2025									
pH		15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description		10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025
Total Organic Carbon		21-Oct-2025	21-Oct-2025	21-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32272442	32272444	32272446	32272398	32272448	32272450	32272452	32272454	32272456
	LP33-SP325	LP33-SP325	LP33-SP325	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S2	LP33-SP308-S2
	ES	ES	ES		ESA1	ESA2	ES	ESA1	ESA2
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	14-Oct-2025	14-Oct-2025	15-Oct-2025
pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	17-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025
Total Organic Carbon	21-Oct-2025	21-Oct-2025	21-Oct-2025	14-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3211	QC 3275	QC 3228
10:2 FTS (Raw)	TM440	76.23 53.10 : 140.00	67.02 53.10 : 140.00	69.67 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	81.16 53.56 : 141.19	75.81 53.56 : 141.19	78.88 53.56 : 141.19
3:3 FTCA (Raw)	TM440	75.5 50.54 : 133.25	109.11 50.54 : 133.25	109.02 50.54 : 133.25
4:2 FTS (Raw)	TM440	79.9 56.34 : 145.91	85.44 56.34 : 145.91	78.77 56.34 : 145.91
5:3 FTCA (Raw)	TM440	79.94 52.66 : 130.08	83.68 52.66 : 130.08	81.61 52.66 : 130.08
6:2 FTAB (Raw)	TM440	32.29 38.50 : 101.50	27.22 38.50 : 101.50	27.25 38.50 : 101.50
6:2 FTS (Raw)	TM440	78.46 54.79 : 144.46	77.72 54.79 : 144.46	79.47 54.79 : 144.46
7:3 FTCA (Raw)	TM440	77.93 48.60 : 128.14	78.37 48.60 : 128.14	73.09 48.60 : 128.14
8:2 diPAP (Raw)	TM440	78.33 56.03 : 147.72	76.95 56.03 : 147.72	72.24 56.03 : 147.72
8:2 FTS (Raw)	TM440	74.04 55.74 : 146.96	76.67 55.74 : 146.96	85.09 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	83.54 54.59 : 143.91	84.76 54.59 : 143.91	82.55 54.59 : 143.91
ADONA (Raw)	TM440	88.68 54.01 : 132.33	89.02 54.01 : 132.33	86.03 54.01 : 132.33
Branched PFOS (Raw)	TM440	83.09 54.09 : 142.61	84.13 54.09 : 142.61	81.64 54.09 : 142.61
EtFOSAA (Raw)	TM440	77.34 52.48 : 138.36	82.56 52.48 : 138.36	69.61 52.48 : 138.36
EtFOSE (Raw)	TM440	84.06 57.05 : 145.29	87.22 57.05 : 145.29	86.1 57.05 : 145.29
FBSA (Raw)	TM440	74.1 49.51 : 125.13	90.53 49.51 : 125.13	89.89 49.51 : 125.13
FHxSA (Raw)	TM440	77.44 50.38 : 132.82	86.78 50.38 : 132.82	85.48 50.38 : 132.82
HFPO-DA (Raw)	TM440	89.85 53.47 : 140.98	94.54 53.47 : 140.98	91.45 53.47 : 140.98
HFPO-TA (Raw)	TM440	92.19 54.77 : 144.39	96.77 54.77 : 144.39	95.36 54.77 : 144.39
L-PFOS (Raw)	TM440	77.09 54.09 : 142.61	83.08 54.09 : 142.61	89.53 54.09 : 142.61
MeFOSAA (Raw)	TM440	79.34 53.02 : 139.78	79.52 53.02 : 139.78	71.09 53.02 : 139.78
MeFOSE (Raw)	TM440	76.68 54.99 : 144.97	80.97 54.99 : 144.97	85.24 54.99 : 144.97
N-EtFOSA (Raw)	TM440	84.18 59.56 : 132.93	80.84 59.56 : 132.93	79.13 59.56 : 132.93
NFDHA (Raw)	TM440	84.38 57.35 : 151.20	87.72 57.35 : 151.20	82.38 57.35 : 151.20
N-MeFOSA (Raw)	TM440	79.6 59.19 : 133.01	75.02 59.19 : 133.01	78.01 59.19 : 133.01
PFBA (Raw)	TM440	81.12 52.69 : 138.91	88.67 52.69 : 138.91	84.99 52.69 : 138.91



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PFAS in soils

		QC 3211	QC 3275	QC 3228
PFBS (Raw)	TM440	74.73 53.31 : 140.54	85.22 53.31 : 140.54	79.54 53.31 : 140.54
PFDA (Raw)	TM440	86.45 53.39 : 140.76	95.84 53.39 : 140.76	89.99 53.39 : 140.76
PFDoA (Raw)	TM440	80.35 52.85 : 139.34	84.85 52.85 : 139.34	85.33 52.85 : 139.34
PFDoS (Raw)	TM440	80.28 55.29 : 145.76	83.14 55.29 : 145.76	82.36 55.29 : 145.76
PFDS (Raw)	TM440	84.74 52.94 : 139.56	81.69 52.94 : 139.56	80.81 52.94 : 139.56
PFecHS (Raw)	TM440	76.98 50.75 : 133.80	80.14 50.75 : 133.80	72.58 50.75 : 133.80
PFEESA (Raw)	TM440	74.79 50.87 : 134.12	80.63 50.87 : 134.12	75.39 50.87 : 134.12
PFHpA (Raw)	TM440	85.84 52.61 : 138.69	89.23 52.61 : 138.69	86.48 52.61 : 138.69
PFHpS (Raw)	TM440	81.42 55.29 : 145.76	82.04 55.29 : 145.76	82.53 55.29 : 145.76
PFHxA (Raw)	TM440	81.92 54.05 : 142.50	84.92 54.05 : 142.50	84.86 54.05 : 142.50
PFHxDA (Raw)	TM440	96.12 52.03 : 137.17	82.73 52.03 : 137.17	89.36 52.03 : 137.17
PFHxS (Raw)	TM440	77.65 53.56 : 141.19	82.84 53.56 : 141.19	87.28 53.56 : 141.19
PFMOBA (Raw)	TM440	79.47 52.73 : 139.02	103.1 52.73 : 139.02	106.52 52.73 : 139.02
PFMOPra (Raw)	TM440	75.38 52.57 : 138.58	101.24 52.57 : 138.58	99.68 52.57 : 138.58
PFNA (Raw)	TM440	81.4 52.94 : 139.56	91.77 52.94 : 139.56	88.48 52.94 : 139.56
PFNS (Raw)	TM440	78.9 54.38 : 143.37	89.95 54.38 : 143.37	86.45 54.38 : 143.37
PFOA (Raw)	TM440	75.42 53.80 : 141.85	86.22 53.80 : 141.85	78.43 53.80 : 141.85
PFODA (Raw)	TM440	88.42 56.03 : 147.72	66.48 56.03 : 147.72	74.82 56.03 : 147.72
PFOSA (Raw)	TM440	78.59 53.10 : 140.00	81.59 53.10 : 140.00	82.87 53.10 : 140.00
PFFPA (Raw)	TM440	83.38 53.89 : 142.06	84.2 53.89 : 142.06	85.21 53.89 : 142.06
PFPeS (Raw)	TM440	77.44 54.30 : 143.15	77.03 54.30 : 143.15	80.01 54.30 : 143.15
PFTeA (Raw)	TM440	84.58 53.06 : 139.89	97.5 53.06 : 139.89	91.67 53.06 : 139.89
PFTrDA (Raw)	TM440	84.55 51.70 : 136.30	95.72 51.70 : 136.30	89.05 51.70 : 136.30
PFTrDS (Raw)	TM440	83.74 56.24 : 148.26	76.15 56.24 : 148.26	78.05 56.24 : 148.26
PFUnA (Raw)	TM440	75.39 53.35 : 140.65	85.47 53.35 : 140.65	81.73 53.35 : 140.65
PFUnDS (Raw)	TM440	85.48 53.60 : 141.30	75.24 53.60 : 141.30	84.72 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3203	QC 3280
11CI-PF3OUdS (763051-92-9)	TM434	111.04 71.39 : 130.11	98.54 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	114.92 53.44 : 140.89	100.46 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	111.5 80.71 : 134.26	109.63 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	116.0 64.44 : 139.44	99.38 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	127.44 58.31 : 142.44	97.4 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	123.28 73.93 : 134.90	106.81 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	118.87 61.23 : 140.88	91.94 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	124.09 82.68 : 128.35	109.63 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	115.97 69.20 : 147.13	102.97 71.98 : 136.03
ADONA (919005-14-4)	TM434	106.74 73.23 : 135.10	103.93 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	110.83 72.95 : 133.93	114.17 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	130.66 67.47 : 136.89	103.94 67.92 : 135.38
FBSA (30334-69-1)	TM434	118.77 63.70 : 143.28	99.16 58.08 : 137.20
FHxSA (41997-13-1)	TM434	119.47 63.00 : 139.73	102.72 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	110.8 67.58 : 142.95	112.28 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	121.73 69.04 : 147.42	110.95 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	116.93 70.63 : 141.88	97.59 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	119.62 75.64 : 130.69	107.15 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	127.66 72.41 : 131.62	106.8 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	98.3 57.83 : 132.08	79.2 59.26 : 122.86
NFDHA (151772-58-6)	TM434	121.54 57.60 : 134.40	101.33 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	100.64 61.69 : 135.49	70.94 62.71 : 118.96
PFBA (375-22-4)	TM434	118.39 74.68 : 133.63	102.67 67.84 : 130.39
PFBS (375-73-5)	TM434	121.56 74.09 : 133.79	106.57 90.25 : 126.25
PFDA (335-76-2)	TM434	131.51 72.39 : 135.76	101.18 68.94 : 132.99
PFDaA (307-55-1)	TM434	116.92 58.06 : 148.21	111.24 66.19 : 135.04
PFDoS (79780-39-5)	TM434	113.16 74.76 : 130.94	94.35 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3203	QC 3280
PFDS (335-77-3)	TM434	107.23 58.61 : 140.44	98.35 64.84 : 138.49
PFEESA (113507-82-7)	TM434	109.93 62.25 : 138.08	101.59 67.24 : 129.19
PFHpA (375-85-9)	TM434	100.33 75.71 : 136.46	107.56 72.89 : 141.36
PFHpS (375-92-8)	TM434	122.66 76.13 : 132.38	104.9 72.19 : 155.36
PFHxA (307-24-4)	TM434	123.84 78.16 : 133.89	109.54 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	115.71 71.24 : 136.49	106.48 89.96 : 128.14
PFHxS (355-46-4)	TM434	118.99 73.25 : 135.20	99.89 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	109.23 76.41 : 130.26	107.59 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	118.53 65.74 : 128.74	109.1 80.40 : 136.73
PFNA (375-95-1)	TM434	123.67 75.01 : 133.06	103.26 68.61 : 128.99
PFNS (68259-12-1)	TM434	114.1 74.74 : 129.26	104.72 70.70 : 130.93
PFOA (335-67-1)	TM434	103.68 74.76 : 136.11	105.86 74.09 : 143.61
PFODA (16517-11-6)	TM434	119.17 53.58 : 141.25	109.4 68.70 : 175.88
PFOSA (754-91-6)	TM434	117.49 76.54 : 135.04	108.86 67.59 : 130.51
PFPA (2706-90-3)	TM434	111.99 77.89 : 134.66	110.28 74.20 : 140.58
PFPeS (2706-91-4)	TM434	122.94 69.49 : 132.71	97.89 76.19 : 137.91
PFTeA (376-06-7)	TM434	122.33 61.66 : 143.71	107.83 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	118.62 67.04 : 136.04	104.18 71.98 : 130.25
PFUnA (2058-94-8)	TM434	109.12 70.21 : 138.54	109.72 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	110.77 71.45 : 127.25	89.2 85.84 : 139.76

pH

Component	Method Code	QC 3295	QC 3291	QC 3271	QC 3293	QC 3207
pH	TM133	102.19 95.29 : 105.24	101.8 95.29 : 105.24	102.41 95.29 : 105.24	102.95 95.29 : 105.24	101.73 95.29 : 105.24

Total Organic Carbon



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Total Organic Carbon

Component	Method Code	QC 3297	QC 3252	QC 3208	QC 3206	QC 3272
Total Organic Carbon	TM132	96.29 93.61 : 106.00	97.67 93.61 : 106.00	94.82 93.61 : 106.00	96.2 93.61 : 106.00	97.46 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251010-37
Client Ref: UK-70100310

Report Number: 781069
Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 23 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251010-37
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781122
Order Number: UK-70100310

This report has been revised and directly supersedes 781111 in its entirety.

We received 31 samples on Thursday October 09, 2025 and 29 of these samples were scheduled for analysis which was completed on Wednesday October 22, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32272396	LP33-SP306		0.10 - 0.20	07/10/2025
32272400	LP33-SP306	ES	0.30 - 0.40	07/10/2025
32272426	LP33-SP306	ES	0.50 - 0.60	07/10/2025
32272402	LP33-SP312	ES	0.00 - 0.10	07/10/2025
32272404	LP33-SP312	WT	0.00 - 0.10	07/10/2025
32272408	LP33-SP312	ES	0.20 - 0.30	07/10/2025
32272410	LP33-SP312	ES	0.40 - 0.50	07/10/2025
32272412	LP33-SP313	ES	0.10 - 0.20	07/10/2025
32272414	LP33-SP313	ES	0.20 - 0.30	07/10/2025
32272416	LP33-SP313	ES	0.50 - 0.60	07/10/2025
32272418	LP33-SP315	WT	0.00 - 0.00	07/10/2025
32272422	LP33-SP315	ES	0.10 - 0.20	07/10/2025
32272424	LP33-SP315	ES	0.30 - 0.40	07/10/2025
32272428	LP33-SP315	ES	0.50 - 0.60	07/10/2025
32272430	LP33-SP323	ES	0.00 - 0.10	07/10/2025
32272432	LP33-SP323	ES	0.30 - 0.40	07/10/2025
32272434	LP33-SP323	ES	0.40 - 0.50	07/10/2025
32272436	LP33-SP324	ES	0.00 - 0.10	07/10/2025
32272438	LP33-SP324	ES	0.20 - 0.30	07/10/2025
32272440	LP33-SP324	ES	0.40 - 0.50	07/10/2025
32272442	LP33-SP325	ES	0.10 - 0.20	07/10/2025
32272444	LP33-SP325	ES	0.20 - 0.30	07/10/2025
32272446	LP33-SP325	ES	0.50 - 0.60	07/10/2025
32272448	LP33-SP308-S1	ESA1	0.00 - 0.10	07/10/2025
32272450	LP33-SP308-S1	ESA2	0.00 - 0.10	07/10/2025
32272452	LP33-SP308-S1	ES	0.20 - 0.30	07/10/2025
32272398	LP33-SP308-S1		0.40 - 0.50	07/10/2025
32272454	LP33-SP308-S2	ESA1	0.00 - 0.10	07/10/2025
32272456	LP33-SP308-S2	ESA2	0.00 - 0.10	07/10/2025
32272458	LP33-SP308-S2	ES	0.20 - 0.30	07/10/2025
32272460	LP33-SP308-S2	ES	0.40 - 0.50	07/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
32272438	LP33-SP324	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32272436	LP33-SP324	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32272434	LP33-SP323	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32272432	LP33-SP323	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32272430	LP33-SP323	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32272428	LP33-SP315	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32272424	LP33-SP315	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32272422	LP33-SP315	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32272418	LP33-SP315	WT	0.00 - 0.00	50ml digitube (ALE001)	PW
32272416	LP33-SP313	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32272414	LP33-SP313	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32272412	LP33-SP313	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32272410	LP33-SP312	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32272408	LP33-SP312	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32272404	LP33-SP312	WT	0.00 - 0.10	50ml digitube (ALE001)	PW
32272402	LP33-SP312	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32272426	LP33-SP306	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32272400	LP33-SP306	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32272396	LP33-SP306		0.10 - 0.20	1kg TUB with Handle (ALE260)	S
PFAS in soils	All	NDPs: 0 Tests: 27			
			X	X	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2			
			X		X
pH	All	NDPs: 0 Tests: 27			
			X	X	X
Sample description	All	NDPs: 0 Tests: 27			
			X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 27			
			X	X	X

32272456	LP33-SP308-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272454	LP33-SP308-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272398	LP33-SP308-S1		0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272452	LP33-SP308-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272450	LP33-SP308-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272448	LP33-SP308-S1	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272446	LP33-SP325	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272444	LP33-SP325	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272442	LP33-SP325	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32272440	LP33-SP324	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32272396	LP33-SP306	0.10 - 0.20	Dark Brown	Sandy Clay	Stones	Vegetation
32272400	LP33-SP306	0.30 - 0.40	Light Brown	Sandy Clay	Stones	Vegetation
32272426	LP33-SP306	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272402	LP33-SP312	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272408	LP33-SP312	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272410	LP33-SP312	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32272412	LP33-SP313	0.10 - 0.20	Light Brown	Sandy Clay	Stones	Vegetation
32272414	LP33-SP313	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272416	LP33-SP313	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272422	LP33-SP315	0.10 - 0.20	Light Brown	Sandy Clay	Stones	Vegetation
32272424	LP33-SP315	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32272428	LP33-SP315	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272430	LP33-SP323	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272432	LP33-SP323	0.30 - 0.40	Light Brown	Sandy Clay	Stones	Vegetation
32272434	LP33-SP323	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32272436	LP33-SP324	0.00 - 0.10	Light Brown	Silty Clay Loam	Vegetation	None
32272438	LP33-SP324	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32272440	LP33-SP324	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32272442	LP33-SP325	0.10 - 0.20	Light Brown	Sandy Clay	Stones	Vegetation
32272444	LP33-SP325	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272446	LP33-SP325	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32272398	LP33-SP308-S1	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32272448	LP33-SP308-S1	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272450	LP33-SP308-S1	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32272452	LP33-SP308-S1	0.20 - 0.30	Light Brown	Sandy Clay	Stones	Vegetation
32272454	LP33-SP308-S2	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation
32272456	LP33-SP308-S2	0.00 - 0.10	Light Brown	Sandy Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
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Results Legend			Customer Sample Ref.	LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**§@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002		
PFMOPrA (377-73-1)	<0.001 µg/l	TM434					<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002	◆	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065		
Branched PFOS	<0.00065 µg/l	TM434					<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002	◆	
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref.		LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
* Subcontracted - refer to subcontractor report for accreditation status.					32272396	32272400	32272426	32272402	32272404	32272408
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
PFechS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	19	13	15	26				20
Soil Organic Matter (SOM)	<0.35 %	TM132	3.21	1.07	1.19	6.14				3.48
pH	1 pH Units	TM133	6.97	7.49	7.57	6.81				6.99
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8				<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8				<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1				<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5

09:05:52 23/10/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref.		LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
* Subcontracted - refer to subcontractor report for accreditation status.					32272396	32272400	32272426	32272402	32272404	32272408
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.55	1.7	1.16	2.19		2.4
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	1.74		1.25
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

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CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref.		LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313	LP33-SP315	LP33-SP315
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
tot.unfilt	Total / unfiltered sample.				251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
Subcontracted - refer to subcontractor report for accreditation status.					32272410	32272412	32272414	32272416	32272418	32272422
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	◆
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	◆
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313	LP33-SP315	LP33-SP315
#	ISO17025 accredited.		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.10 - 0.20
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.		07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.		09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		251010-37	251010-37	251010-37	251010-37	251010-37	251010-37
***	6:2 FTAB (see appendix)		32272410	32272412	32272414	32272416	32272418	32272422
1-4**	Sample deviation (see appendix)		ES	ES	ES	ES	WT	ES
Component	LOD/Units	Method						
PFDaA (307-55-1)	<0.002 µg/l	TM434					<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002	
PFTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01	
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434					<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001	
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434					<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01	
Total PFOS	<0.00065 µg/l	TM434					<0.00065	
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001	
PFTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	21	24	14	26		26
Soil Organic Matter (SOM)	<0.35 %	TM132	3.48	4.24	1.14	4.52		5.57
pH	1 pH Units	TM133	7.25	6.49	6.79	6.97		7.35
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	7.26	<0.5	<0.5		<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref.	LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313	LP33-SP315	LP33-SP315
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.10 - 0.20
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.			07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	
***	6:2 FTAB (see appendix)		251010-37	251010-37	251010-37	251010-37	251010-37	251010-37	
1-4*§@	Sample deviation (see appendix)		32272410	32272412	32272414	32272416	32272418	32272422	
			ES	ES	ES	ES	WT	ES	
Component	LOD/Units	Method							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5		<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.95	4.84	2.46	2.83		4.22	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10		<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9		<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4		<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	3.96	0.81	<0.6		<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	6.04	1.14	<0.6		2.52	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5		<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4	<1.4	<1.4		<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8		<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7	<0.7	<0.7		<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP315	LP33-SP315	LP33-SP323	LP33-SP323	LP33-SP323	LP33-SP324
#	ISO17025 accredited.			0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	25	11	25	17	19	22	
Soil Organic Matter (SOM)	<0.35 %	TM132	9.46	1.11	5.57	2.22	2.57	1.9	
pH	1 pH Units	TM133	7.49	7.73	7.03	7.29	7.25	8.48	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.08	3.77	0.829	1.8	1.97	<0.5	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	1.13	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	3.82	<0.6	2.69	<0.6	<0.6	0.989	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP324	LP33-SP324	LP33-SP325	LP33-SP325	LP33-SP325	LP33-SP308-S1
# ISO17025 accredited.				0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025	07/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	28	21	28	17	25	22	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.74	2.38	5.05	1.84	4.12	3.64	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.58	7.62	7.49	7.69	7.01	6.44	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	0.829	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.55	2.61	5.09	5.26	19.3	14.3	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	1.21	1.17	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	4.76	1.75	1.42	1.08	<0.6	1.93	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Results Legend			Customer Sample Ref.	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S2	LP33-SP308-S2													
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 07/10/2025 09/10/2025 251010-37 32272450 ESA2								0.20 - 0.30 Soil/Solid (S) 07/10/2025 09/10/2025 251010-37 32272452 ES	0.40 - 0.50 Soil/Solid (S) 07/10/2025 09/10/2025 251010-37 32272398	0.00 - 0.10 Soil/Solid (S) 07/10/2025 09/10/2025 251010-37 32272454 ESA1	0.00 - 0.10 Soil/Solid (S) 07/10/2025 09/10/2025 251010-37 32272456 ESA2								
Component														LOD/Units	Method						
Moisture Content Ratio (% of as received sample)														%	PM024	26	17	19	23	34	
Soil Organic Matter (SOM)														<0.35 %	TM132	4.81	1.83	2.55	3.34	6.43	
pH														1 pH Units	TM133	6.68	7.33	7.7	6.77	6.61	
PFBA (375-22-4)														<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)														<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)														<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)														<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5												
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8														
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1														
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5														
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.55	6.2	6.64	4.48	3.86														
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10														
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6														
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9														
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4														
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5														
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6														
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6														
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5														



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37

Report Number: 781122

Superseded Report: 781111

Client Ref.: UK-70100310

Location: Thornton Phase 3

Data Amendment

Sample No. :	All	Date of Amendment :	23/10/2025	Origin:	Client Request
Sample Ref.	Reason	Previous	Amended		
All	Client Request	Reporting Units - Default	All as ug/l & ug/kg		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251010-37
Client Ref.: UK-70100310

Report Number: 781122
Location: Thornton Phase 3

Superseded Report: 781111

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32272396	32272400	32272426	32272402	32272404	32272408	32272410	32272412	32272414	32272416
	LP33-SP306	LP33-SP306	LP33-SP306	LP33-SP312	LP33-SP312	LP33-SP312	LP33-SP312	LP33-SP313	LP33-SP313	LP33-SP313
		ES	ES	ES	WT	ES	ES	ES	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025		15-Oct-2025	15-Oct-2025	16-Oct-2025	15-Oct-2025	15-Oct-2025
PFAS Liquids (Full Suite)					21-Oct-2025					
pH	17-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025		15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	13-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025		10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025
Total Organic Carbon	22-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025		21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32272418	32272422	32272424	32272428	32272430	32272432	32272434	32272436	32272438	32272440
	LP33-SP315	LP33-SP315	LP33-SP315	LP33-SP315	LP33-SP323	LP33-SP323	LP33-SP323	LP33-SP324	LP33-SP324	LP33-SP324
	WT	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.00 - 0.00	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
PFAS Liquids (Full Suite)	21-Oct-2025									
pH		15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description		10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025
Total Organic Carbon		21-Oct-2025	21-Oct-2025	21-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32272442	32272444	32272446	32272398	32272448	32272450	32272452	32272454	32272456
	LP33-SP325	LP33-SP325	LP33-SP325	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S1	LP33-SP308-S2	LP33-SP308-S2
	ES	ES	ES		ESA1	ESA2	ES	ESA1	ESA2
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	14-Oct-2025	14-Oct-2025	15-Oct-2025
pH	15-Oct-2025	15-Oct-2025	15-Oct-2025	17-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025	10-Oct-2025
Total Organic Carbon	21-Oct-2025	21-Oct-2025	21-Oct-2025	14-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3211	QC 3275	QC 3228
10:2 FTS (Raw)	TM440	76.23 53.10 : 140.00	67.02 53.10 : 140.00	69.67 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	81.16 53.56 : 141.19	75.81 53.56 : 141.19	78.88 53.56 : 141.19
3:3 FTCA (Raw)	TM440	75.5 50.54 : 133.25	109.11 50.54 : 133.25	109.02 50.54 : 133.25
4:2 FTS (Raw)	TM440	79.9 56.34 : 145.91	85.44 56.34 : 145.91	78.77 56.34 : 145.91
5:3 FTCA (Raw)	TM440	79.94 52.66 : 130.08	83.68 52.66 : 130.08	81.61 52.66 : 130.08
6:2 FTAB (Raw)	TM440	32.29 38.50 : 101.50	27.22 38.50 : 101.50	27.25 38.50 : 101.50
6:2 FTS (Raw)	TM440	78.46 54.79 : 144.46	77.72 54.79 : 144.46	79.47 54.79 : 144.46
7:3 FTCA (Raw)	TM440	77.93 48.60 : 128.14	78.37 48.60 : 128.14	73.09 48.60 : 128.14
8:2 diPAP (Raw)	TM440	78.33 56.03 : 147.72	76.95 56.03 : 147.72	72.24 56.03 : 147.72
8:2 FTS (Raw)	TM440	74.04 55.74 : 146.96	76.67 55.74 : 146.96	85.09 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	83.54 54.59 : 143.91	84.76 54.59 : 143.91	82.55 54.59 : 143.91
ADONA (Raw)	TM440	88.68 54.01 : 132.33	89.02 54.01 : 132.33	86.03 54.01 : 132.33
Branched PFOS (Raw)	TM440	83.09 54.09 : 142.61	84.13 54.09 : 142.61	81.64 54.09 : 142.61
EtFOSAA (Raw)	TM440	77.34 52.48 : 138.36	82.56 52.48 : 138.36	69.61 52.48 : 138.36
EtFOSE (Raw)	TM440	84.06 57.05 : 145.29	87.22 57.05 : 145.29	86.1 57.05 : 145.29
FBSA (Raw)	TM440	74.1 49.51 : 125.13	90.53 49.51 : 125.13	89.89 49.51 : 125.13
FHxSA (Raw)	TM440	77.44 50.38 : 132.82	86.78 50.38 : 132.82	85.48 50.38 : 132.82
HFPO-DA (Raw)	TM440	89.85 53.47 : 140.98	94.54 53.47 : 140.98	91.45 53.47 : 140.98
HFPO-TA (Raw)	TM440	92.19 54.77 : 144.39	96.77 54.77 : 144.39	95.36 54.77 : 144.39
L-PFOS (Raw)	TM440	77.09 54.09 : 142.61	83.08 54.09 : 142.61	89.53 54.09 : 142.61
MeFOSAA (Raw)	TM440	79.34 53.02 : 139.78	79.52 53.02 : 139.78	71.09 53.02 : 139.78
MeFOSE (Raw)	TM440	76.68 54.99 : 144.97	80.97 54.99 : 144.97	85.24 54.99 : 144.97
N-EtFOSA (Raw)	TM440	84.18 59.56 : 132.93	80.84 59.56 : 132.93	79.13 59.56 : 132.93
NFDHA (Raw)	TM440	84.38 57.35 : 151.20	87.72 57.35 : 151.20	82.38 57.35 : 151.20
N-MeFOSA (Raw)	TM440	79.6 59.19 : 133.01	75.02 59.19 : 133.01	78.01 59.19 : 133.01
PFBA (Raw)	TM440	81.12 52.69 : 138.91	88.67 52.69 : 138.91	84.99 52.69 : 138.91



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PFAS in soils

		QC 3211	QC 3275	QC 3228
PFBS (Raw)	TM440	74.73 53.31 : 140.54	85.22 53.31 : 140.54	79.54 53.31 : 140.54
PFDA (Raw)	TM440	86.45 53.39 : 140.76	95.84 53.39 : 140.76	89.99 53.39 : 140.76
PFDoA (Raw)	TM440	80.35 52.85 : 139.34	84.85 52.85 : 139.34	85.33 52.85 : 139.34
PFDoS (Raw)	TM440	80.28 55.29 : 145.76	83.14 55.29 : 145.76	82.36 55.29 : 145.76
PFDS (Raw)	TM440	84.74 52.94 : 139.56	81.69 52.94 : 139.56	80.81 52.94 : 139.56
PFecHS (Raw)	TM440	76.98 50.75 : 133.80	80.14 50.75 : 133.80	72.58 50.75 : 133.80
PFEESA (Raw)	TM440	74.79 50.87 : 134.12	80.63 50.87 : 134.12	75.39 50.87 : 134.12
PFHpA (Raw)	TM440	85.84 52.61 : 138.69	89.23 52.61 : 138.69	86.48 52.61 : 138.69
PFHpS (Raw)	TM440	81.42 55.29 : 145.76	82.04 55.29 : 145.76	82.53 55.29 : 145.76
PFHxA (Raw)	TM440	81.92 54.05 : 142.50	84.92 54.05 : 142.50	84.86 54.05 : 142.50
PFHxDA (Raw)	TM440	96.12 52.03 : 137.17	82.73 52.03 : 137.17	89.36 52.03 : 137.17
PFHxS (Raw)	TM440	77.65 53.56 : 141.19	82.84 53.56 : 141.19	87.28 53.56 : 141.19
PFMOBA (Raw)	TM440	79.47 52.73 : 139.02	103.1 52.73 : 139.02	106.52 52.73 : 139.02
PFMOPra (Raw)	TM440	75.38 52.57 : 138.58	101.24 52.57 : 138.58	99.68 52.57 : 138.58
PFNA (Raw)	TM440	81.4 52.94 : 139.56	91.77 52.94 : 139.56	88.48 52.94 : 139.56
PFNS (Raw)	TM440	78.9 54.38 : 143.37	89.95 54.38 : 143.37	86.45 54.38 : 143.37
PFOA (Raw)	TM440	75.42 53.80 : 141.85	86.22 53.80 : 141.85	78.43 53.80 : 141.85
PFODA (Raw)	TM440	88.42 56.03 : 147.72	66.48 56.03 : 147.72	74.82 56.03 : 147.72
PFOSA (Raw)	TM440	78.59 53.10 : 140.00	81.59 53.10 : 140.00	82.87 53.10 : 140.00
PFFPA (Raw)	TM440	83.38 53.89 : 142.06	84.2 53.89 : 142.06	85.21 53.89 : 142.06
PFPeS (Raw)	TM440	77.44 54.30 : 143.15	77.03 54.30 : 143.15	80.01 54.30 : 143.15
PFTeA (Raw)	TM440	84.58 53.06 : 139.89	97.5 53.06 : 139.89	91.67 53.06 : 139.89
PFTrDA (Raw)	TM440	84.55 51.70 : 136.30	95.72 51.70 : 136.30	89.05 51.70 : 136.30
PFTrDS (Raw)	TM440	83.74 56.24 : 148.26	76.15 56.24 : 148.26	78.05 56.24 : 148.26
PFUnA (Raw)	TM440	75.39 53.35 : 140.65	85.47 53.35 : 140.65	81.73 53.35 : 140.65
PFUnDS (Raw)	TM440	85.48 53.60 : 141.30	75.24 53.60 : 141.30	84.72 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3203	QC 3280
11CI-PF3OUdS (763051-92-9)	TM434	111.04 71.39 : 130.11	98.54 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	114.92 53.44 : 140.89	100.46 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	111.5 80.71 : 134.26	109.63 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	116.0 64.44 : 139.44	99.38 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	127.44 58.31 : 142.44	97.4 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	123.28 73.93 : 134.90	106.81 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	118.87 61.23 : 140.88	91.94 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	124.09 82.68 : 128.35	109.63 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	115.97 69.20 : 147.13	102.97 71.98 : 136.03
ADONA (919005-14-4)	TM434	106.74 73.23 : 135.10	103.93 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	110.83 72.95 : 133.93	114.17 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	130.66 67.47 : 136.89	103.94 67.92 : 135.38
FBSA (30334-69-1)	TM434	118.77 63.70 : 143.28	99.16 58.08 : 137.20
FHxSA (41997-13-1)	TM434	119.47 63.00 : 139.73	102.72 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	110.8 67.58 : 142.95	112.28 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	121.73 69.04 : 147.42	110.95 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	116.93 70.63 : 141.88	97.59 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	119.62 75.64 : 130.69	107.15 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	127.66 72.41 : 131.62	106.8 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	98.3 57.83 : 132.08	79.2 59.26 : 122.86
NFDHA (151772-58-6)	TM434	121.54 57.60 : 134.40	101.33 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	100.64 61.69 : 135.49	70.94 62.71 : 118.96
PFBA (375-22-4)	TM434	118.39 74.68 : 133.63	102.67 67.84 : 130.39
PFBS (375-73-5)	TM434	121.56 74.09 : 133.79	106.57 90.25 : 126.25
PFDA (335-76-2)	TM434	131.51 72.39 : 135.76	101.18 68.94 : 132.99
PFDaA (307-55-1)	TM434	116.92 58.06 : 148.21	111.24 66.19 : 135.04
PFDoS (79780-39-5)	TM434	113.16 74.76 : 130.94	94.35 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3203	QC 3280
PFDS (335-77-3)	TM434	107.23 58.61 : 140.44	98.35 64.84 : 138.49
PFEESA (113507-82-7)	TM434	109.93 62.25 : 138.08	101.59 67.24 : 129.19
PFHpA (375-85-9)	TM434	100.33 75.71 : 136.46	107.56 72.89 : 141.36
PFHpS (375-92-8)	TM434	122.66 76.13 : 132.38	104.9 72.19 : 155.36
PFHxA (307-24-4)	TM434	123.84 78.16 : 133.89	109.54 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	115.71 71.24 : 136.49	106.48 89.96 : 128.14
PFHxS (355-46-4)	TM434	118.99 73.25 : 135.20	99.89 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	109.23 76.41 : 130.26	107.59 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	118.53 65.74 : 128.74	109.1 80.40 : 136.73
PFNA (375-95-1)	TM434	123.67 75.01 : 133.06	103.26 68.61 : 128.99
PFNS (68259-12-1)	TM434	114.1 74.74 : 129.26	104.72 70.70 : 130.93
PFOA (335-67-1)	TM434	103.68 74.76 : 136.11	105.86 74.09 : 143.61
PFODA (16517-11-6)	TM434	119.17 53.58 : 141.25	109.4 68.70 : 175.88
PFOSA (754-91-6)	TM434	117.49 76.54 : 135.04	108.86 67.59 : 130.51
PFPA (2706-90-3)	TM434	111.99 77.89 : 134.66	110.28 74.20 : 140.58
PFPeS (2706-91-4)	TM434	122.94 69.49 : 132.71	97.89 76.19 : 137.91
PFTeA (376-06-7)	TM434	122.33 61.66 : 143.71	107.83 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	118.62 67.04 : 136.04	104.18 71.98 : 130.25
PFUnA (2058-94-8)	TM434	109.12 70.21 : 138.54	109.72 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	110.77 71.45 : 127.25	89.2 85.84 : 139.76

pH

Component	Method Code	QC 3295	QC 3291	QC 3271	QC 3293	QC 3207
pH	TM133	102.19 95.29 : 105.24	101.8 95.29 : 105.24	102.41 95.29 : 105.24	102.95 95.29 : 105.24	101.73 95.29 : 105.24

Total Organic Carbon



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Total Organic Carbon

Component	Method Code	QC 3297	QC 3252	QC 3208	QC 3206	QC 3272
Total Organic Carbon	TM132	96.29 93.61 : 106.00	97.67 93.61 : 106.00	94.82 93.61 : 106.00	96.2 93.61 : 106.00	97.46 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 24 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251011-63
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781218
Order Number: UK-70100310-403

This report has been revised and directly supersedes 780941 in its entirety.

We received 35 samples on Saturday October 11, 2025 and 34 of these samples were scheduled for analysis which was completed on Friday October 24, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32281175	LP33-SP301	ES	0.10 - 0.20	08/10/2025
32281197	LP33-SP301	ES	0.20 - 0.30	08/10/2025
32281213	LP33-SP301	ES	0.50 - 0.60	08/10/2025
32281147	LP33-SP301	WT	0.50 - 0.60	08/10/2025
32281215	LP33-SP302	ES	0.00 - 0.10	08/10/2025
32281217	LP33-SP302	ES	0.30 - 0.40	08/10/2025
32281219	LP33-SP302	ES	0.40 - 0.50	08/10/2025
32281221	LP33-SP303	ES	0.10 - 0.20	08/10/2025
32281223	LP33-SP303	ES	0.30 - 0.40	08/10/2025
32281152	LP33-SP303	ES	0.50 - 0.60	08/10/2025
32281154	LP33-SP304	ES	0.00 - 0.10	08/10/2025
32281156	LP33-SP304	ES	0.20 - 0.30	08/10/2025
32281158	LP33-SP304	ES	0.40 - 0.50	08/10/2025
32281160	LP33-SP305	ES	0.00 - 0.00	08/10/2025
32281162	LP33-SP305	WT	0.10 - 0.20	08/10/2025
32281166	LP33-SP305	ES	0.10 - 0.20	08/10/2025
32281169	LP33-SP305	ES	0.20 - 0.30	08/10/2025
32281171	LP33-SP305	ES	0.50 - 0.60	08/10/2025
32281173	LP33-SP307	ES	0.00 - 0.00	08/10/2025
32281177	LP33-SP307	ES	0.10 - 0.20	08/10/2025
32281179	LP33-SP307	ES	0.30 - 0.40	08/10/2025
32281181	LP33-SP307	ES	0.50 - 0.60	08/10/2025
32281183	LP33-SP309	ES	0.10 - 0.20	08/10/2025
32281185	LP33-SP309	ES	0.20 - 0.30	08/10/2025
32281187	LP33-SP309	ES	0.50 - 0.60	08/10/2025
32281189	LP33-SP310	ES	0.00 - 0.10	08/10/2025
32281191	LP33-SP310	ES	0.30 - 0.40	08/10/2025
32281193	LP33-SP310	ES	0.40 - 0.50	08/10/2025
32281195	LP33-SP311	ES	0.10 - 0.20	08/10/2025
32281199	LP33-SP311	ES	0.30 - 0.40	08/10/2025
32281201	LP33-SP311	ES	0.50 - 0.60	08/10/2025
32281203	LP33-SP322	ES	0.00 - 0.10	08/10/2025
32281205	LP33-SP322	ES	0.30 - 0.40	08/10/2025
32281207	LP33-SP322	ES	0.40 - 0.50	08/10/2025
32281209	LP33-SP322	WT	0.40 - 0.50	08/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend X Test N No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32281177		LP33-SP307		ES		0.10 - 0.20		1kg TUB with Handle (ALEZ60)		S	
	32281171		LP33-SP305		ES		0.50 - 0.60		1kg TUB with Handle (ALEZ60)		S	
	32281169		LP33-SP305		ES		0.20 - 0.30		1kg TUB with Handle (ALEZ60)		S	
	32281166		LP33-SP305		ES		0.10 - 0.20		1kg TUB with Handle (ALEZ60)		S	
	32281162		LP33-SP305		WT		0.10 - 0.20		50ml digitube (ALE001)		PW	
	32281160		LP33-SP305		ES		0.00 - 0.00		1kg TUB with Handle (ALEZ60)		S	
32281158		LP33-SP304		ES		0.40 - 0.50		1kg TUB with Handle (ALEZ60)		S		
32281156		LP33-SP304		ES		0.20 - 0.30		1kg TUB with Handle (ALEZ60)		S		
32281154		LP33-SP304		ES		0.00 - 0.10		1kg TUB with Handle (ALEZ60)		S		
32281152		LP33-SP303		ES		0.50 - 0.60		1kg TUB with Handle (ALEZ60)		S		
32281223		LP33-SP303		ES		0.30 - 0.40		1kg TUB with Handle (ALEZ60)		S		
32281221		LP33-SP303		ES		0.10 - 0.20		1kg TUB with Handle (ALEZ60)		S		
32281219		LP33-SP302		ES		0.40 - 0.50		1kg TUB with Handle (ALEZ60)		S		
32281217		LP33-SP302		ES		0.30 - 0.40		1kg TUB with Handle (ALEZ60)		S		
32281215		LP33-SP302		ES		0.00 - 0.10		1kg TUB with Handle (ALEZ60)		S		
32281147		LP33-SP301		WT		0.50 - 0.60		50ml digitube (ALE001)		PW		
32281213		LP33-SP301		ES		0.50 - 0.60		1kg TUB with Handle (ALEZ60)		S		
32281197		LP33-SP301		ES		0.20 - 0.30		1kg TUB with Handle (ALEZ60)		S		
32281175		LP33-SP301		ES		0.10 - 0.20		1kg TUB with Handle (ALEZ60)		S		
PFAS in soils	All	NDPs: 0 Tests: 30	X	X	X		X	X	X	X	X	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 3				X				X		
pH	All	NDPs: 0 Tests: 30	X	X	X		X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 31	X	X	X		X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 30	X	X	X		X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32281175	LP33-SP301	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32281197	LP33-SP301	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32281213	LP33-SP301	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32281215	LP33-SP302	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32281217	LP33-SP302	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Crushed Brick	Vegetation
32281219	LP33-SP302	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	None
32281152	LP33-SP303	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32281221	LP33-SP303	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32281223	LP33-SP303	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32281154	LP33-SP304	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32281156	LP33-SP304	0.20 - 0.30	Dark Brown	Sandy Clay	Stones	Vegetation
32281158	LP33-SP304	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32281160	LP33-SP305	0.00 - 0.00	Dark Brown	Sandy Silt Loam	Vegetation	Textiles/Gaskets
32281166	LP33-SP305	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32281169	LP33-SP305	0.20 - 0.30	Dark Brown	Sandy Clay	Stones	Vegetation
32281171	LP33-SP305	0.50 - 0.60	Dark Brown	Silty Clay	Stones	Vegetation
32281177	LP33-SP307	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32281179	LP33-SP307	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32281181	LP33-SP307	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32281183	LP33-SP309	0.10 - 0.20	Dark Brown	Clay Loam	Stones	Vegetation
32281185	LP33-SP309	0.20 - 0.30	Dark Brown	Silty Clay	Stones	Vegetation
32281187	LP33-SP309	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32281189	LP33-SP310	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	Stones
32281191	LP33-SP310	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32281193	LP33-SP310	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32281195	LP33-SP311	0.10 - 0.20	Dark Brown	Loamy Sand	Stones	Vegetation
32281199	LP33-SP311	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32281201	LP33-SP311	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32281203	LP33-SP322	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32281205	LP33-SP322	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32281207	LP33-SP322	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.	LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP302	LP33-SP302	
#	ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
***	6.2 FTAB (see appendix)									
1-4**@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.		LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP302	LP33-SP302
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
tot.unfilt	Total / unfiltered sample.				251011-63	251011-63	251011-63	251011-63	251011-63	251011-63
* Subcontracted - refer to subcontractor report for accreditation status.					32281175	32281197	32281213	32281147	32281215	32281217
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024			27	21	26		31	24
Soil Organic Matter (SOM)	<0.35 %	TM132			8.96	4.05	8.22		8.4	5.36
pH	1 pH Units	TM133			7.73	7.6	7.08		7.28	7.52
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		0.753	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8		<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1		<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.		LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP302	LP33-SP302
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
tot.unfilt	Total / unfiltered sample.				251011-63	251011-63	251011-63	251011-63	251011-63	251011-63
* Subcontracted - refer to subcontractor report for accreditation status.					32281175	32281197	32281213	32281147	32281215	32281217
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.74	2.38	6.93		4.89	6.53
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.	LP33-SP302	LP33-SP303	LP33-SP303	LP33-SP303	LP33-SP304	LP33-SP304
# ISO17025 accredited.				0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	27	26	20	26	27	19	
Soil Organic Matter (SOM)	<0.35 %	TM132	6.86	5.74	3.69	6.84	7.4	3.6	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.3	7.28	7.14	6.82	7.28	7.23	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	7.05	1.71	5.72	11.2	1.99	1.68	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.		LP33-SP304	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.00	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
tot.unfilt	Total / unfiltered sample.				251011-63	251011-63	251011-63	251011-63	251011-63	251011-63
Subcontracted - refer to subcontractor report for accreditation status.					32281158	32281160	32281162	32281166	32281169	32281171
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.		LP33-SP304	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 08/10/2025 11/10/2025 251011-63 32281158 ES	0.00 - 0.00 Soil/Solid (S) 08/10/2025 11/10/2025 251011-63 32281160 ES	0.10 - 0.20 Process Water (PR) 08/10/2025 11/10/2025 251011-63 32281162 WT	0.10 - 0.20 Soil/Solid (S) 08/10/2025 11/10/2025 251011-63 32281166 ES	0.20 - 0.30 Soil/Solid (S) 08/10/2025 11/10/2025 251011-63 32281169 ES	0.50 - 0.60 Soil/Solid (S) 08/10/2025 11/10/2025 251011-63 32281171 ES
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	15	4				24	19	23
Soil Organic Matter (SOM)	<0.35 %	TM132	1.93	#				5.53	4.53	5.31
pH	1 pH Units	TM133	7.09	M				7.96	7.63	7.23
PFBA (375-22-4)	<0.5 µg/kg	TM440	0.596					<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8					<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8					<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1					<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5					<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.	LP33-SP304	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50	0.00 - 0.00	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
m	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt	Dissolved / filtered sample.			11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
tot.unfilt	Total / unfiltered sample.			251011-63	251011-63	251011-63	251011-63	251011-63	251011-63
* Subcontracted - refer to subcontractor report for accreditation status.				32281158	32281160	32281162	32281166	32281169	32281171
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	ES	WT	ES	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5			<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		3.85			4.63	3.09	6.52
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10			<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6			<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9			<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4			<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6			<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6			<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5			<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4			<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8			<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6			<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6			<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6			<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7			<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5			<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP307	LP33-SP307	LP33-SP307	LP33-SP309	LP33-SP309	LP33-SP309
# ISO17025 accredited.				0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.				251011-63	251011-63	251011-63	251011-63	251011-63	251011-63
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				32281177	32281179	32281181	32281183	32281185	32281187
*** 6:2 FTAB (see appendix)				ES	ES	ES	ES	ES	ES
1-4*§@Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	21	20	16	29	12	17	
Soil Organic Matter (SOM)	<0.35 %	TM132	5.03	4.5	2.02	8.98	1.86	1.47	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.38	7.43	7.55	7.53	7.49	7.71	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.46	2.33	4.6	4.14	1.28	4	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

08:39:15 24/10/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.	LP33-SP310	LP33-SP310	LP33-SP310	LP33-SP311	LP33-SP311	LP33-SP311
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Method		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	
diss.filt Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	
tot.unfiltTotal / unfiltered sample.				251011-63	251011-63	251011-63	251011-63	251011-63	
* Subcontracted - refer to subcontractor report for accreditation status.				32281189	32281191	32281193	32281195	32281199	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	ES	ES	ES	ES	
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	11	13	13	9.5	16	14	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.47	0.719	0.933	1.18	1.66	1.11	
pH	1 pH Units	TM133	8.34	8.16	7.92	8.32	8.37	8.37	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.9	1.9	1.87	1.34	6.96	12.6	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.					
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 08/10/2025	0.30 - 0.40 Soil/Solid (S) 08/10/2025	0.40 - 0.50 Soil/Solid (S) 08/10/2025	0.40 - 0.50 Process Water (PR) 08/10/2025	
M mCERTS accredited.								
aq Aqueous / settled sample.								
diss.filt Dissolved / filtered sample.								
tot.unfilt Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002	@
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065	
Branched PFOS	<0.00065 µg/l	TM434					<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002	@
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.		LP33-SP322	LP33-SP322	LP33-SP322	LP33-SP322		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50		
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)		
aq	Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025		
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025		
tot.unfilt	Total / unfiltered sample.				251011-63	251011-63	251011-63	251011-63		
* Subcontracted - refer to subcontractor report for accreditation status.					32281203	32281205	32281207	32281209		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT		
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFD _o A (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFT _r DA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OU _d S (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUn _d S (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFT _e A (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFD _o S (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFH _x DA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
PF _e chS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFT _r DS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	21	13	16					
Soil Organic Matter (SOM)	<0.35 %	TM132	3.47	1.33	1.81					
pH	1 pH Units	TM133	6.71	7.48	7.37					
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
PFMOP _r A (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8					
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8					
PFH _x A (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1					
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5					

08:39:15 24/10/2025



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SDG: 251011-63
Client Ref.: UK-70100310

Report Number: 781218
Location: Thornton Phase 3

Superseded Report: 780941

Results Legend			Customer Sample Ref.		LP33-SP322	LP33-SP322	LP33-SP322	LP33-SP322		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50		
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)		
aq	Aqueous / settled sample.				08/10/2025	08/10/2025	08/10/2025	08/10/2025		
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025		
tot.unfilt	Total / unfiltered sample.				251011-63	251011-63	251011-63	251011-63		
* Subcontracted - refer to subcontractor report for accreditation status.					32281203	32281205	32281207	32281209		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT		
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.88	1.6	4.89			
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5			
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4			
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8			
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6			
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6			
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6			
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7			
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5			



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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32281147	32281175	32281197	32281213	32281215	32281217	32281219	32281152	32281221	32281223
	LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP301	LP33-SP302	LP33-SP302	LP33-SP302	LP33-SP303	LP33-SP303	LP33-SP303
	WT	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
AGS Ref.										
Depth										
Type										
PFAS in soils		20-Oct-2025	23-Oct-2025	15-Oct-2025	23-Oct-2025	20-Oct-2025	15-Oct-2025	15-Oct-2025	20-Oct-2025	15-Oct-2025
PFAS Liquids (Full Suite)	23-Oct-2025									
pH		17-Oct-2025	17-Oct-2025	15-Oct-2025	17-Oct-2025	17-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description		16-Oct-2025	15-Oct-2025	13-Oct-2025	15-Oct-2025	16-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025
Total Organic Carbon		21-Oct-2025	20-Oct-2025	21-Oct-2025	20-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32281154	32281156	32281158	32281160	32281162	32281166	32281169	32281171	32281177	32281179
	LP33-SP304	LP33-SP304	LP33-SP304	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP305	LP33-SP307	LP33-SP307
	ES	ES	ES	ES	WT	ES	ES	ES	ES	ES
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.00	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
AGS Ref.										
Depth										
Type										
PFAS in soils	15-Oct-2025	20-Oct-2025	20-Oct-2025			20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025
PFAS Liquids (Full Suite)					23-Oct-2025					
pH	15-Oct-2025	15-Oct-2025	16-Oct-2025			17-Oct-2025	16-Oct-2025	16-Oct-2025	17-Oct-2025	17-Oct-2025
Sample description	13-Oct-2025	14-Oct-2025	15-Oct-2025	16-Oct-2025		16-Oct-2025	15-Oct-2025	15-Oct-2025	16-Oct-2025	16-Oct-2025
Total Organic Carbon	20-Oct-2025	21-Oct-2025	20-Oct-2025			21-Oct-2025	20-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32281181	32281183	32281185	32281187	32281189	32281191	32281193	32281195	32281199	32281201
	LP33-SP307	LP33-SP309	LP33-SP309	LP33-SP309	LP33-SP310	LP33-SP310	LP33-SP310	LP33-SP311	LP33-SP311	LP33-SP311
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
AGS Ref.										
Depth										
Type										
PFAS in soils	20-Oct-2025	15-Oct-2025	20-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	20-Oct-2025	15-Oct-2025
pH	17-Oct-2025	15-Oct-2025	16-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025	15-Oct-2025
Sample description	16-Oct-2025	13-Oct-2025	15-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025	13-Oct-2025
Total Organic Carbon	21-Oct-2025	21-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025	20-Oct-2025	20-Oct-2025	21-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32281203	32281205	32281207	32281209
	LP33-SP322	LP33-SP322	LP33-SP322	LP33-SP322
	ES	ES	ES	WT
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50
AGS Ref.				
Depth				
Type				
PFAS in soils	20-Oct-2025	20-Oct-2025	15-Oct-2025	
PFAS Liquids (Full Suite)				24-Oct-2025
pH	15-Oct-2025	16-Oct-2025	15-Oct-2025	
Sample description	13-Oct-2025	15-Oct-2025	13-Oct-2025	
Total Organic Carbon	21-Oct-2025	20-Oct-2025	21-Oct-2025	



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3243	QC 3210	QC 3201	QC 3289	QC 3249
10:2 FTS (Raw)	TM440	97.21 53.10 : 140.00	77.33 53.10 : 140.00	73.91 53.10 : 140.00	82.61 53.10 : 140.00	92.52 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	110.84 53.56 : 141.19	80.33 53.56 : 141.19	94.41 53.56 : 141.19	85.53 53.56 : 141.19	95.1 53.56 : 141.19
3:3 FTCA (Raw)	TM440	115.71 50.54 : 133.25	68.44 50.54 : 133.25	111.42 50.54 : 133.25	86.25 50.54 : 133.25	79.44 50.54 : 133.25
4:2 FTS (Raw)	TM440	112.26 56.34 : 145.91	78.3 56.34 : 145.91	92.52 56.34 : 145.91	87.44 56.34 : 145.91	97.29 56.34 : 145.91
5:3 FTCA (Raw)	TM440	111.52 52.66 : 130.08	81.98 52.66 : 130.08	92.97 52.66 : 130.08	84.65 52.66 : 130.08	98.33 52.66 : 130.08
6:2 FTAB (Raw)	TM440	53.07 38.50 : 101.50	37.86 38.50 : 101.50	32.93 38.50 : 101.50	36.34 38.50 : 101.50	38.61 38.50 : 101.50
6:2 FTS (Raw)	TM440	102.87 54.79 : 144.46	69.21 54.79 : 144.46	81.3 54.79 : 144.46	78.92 54.79 : 144.46	95.82 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.95 48.60 : 128.14	76.45 48.60 : 128.14	94.14 48.60 : 128.14	83.93 48.60 : 128.14	99.37 48.60 : 128.14
8:2 diPAP (Raw)	TM440	122.1 56.03 : 147.72	70.39 56.03 : 147.72	92.31 56.03 : 147.72	98.28 56.03 : 147.72	97.6 56.03 : 147.72
8:2 FTS (Raw)	TM440	99.08 55.74 : 146.96	78.75 55.74 : 146.96	86.75 55.74 : 146.96	84.03 55.74 : 146.96	113.87 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	112.23 54.59 : 143.91	79.54 54.59 : 143.91	93.51 54.59 : 143.91	90.88 54.59 : 143.91	96.74 54.59 : 143.91
ADONA (Raw)	TM440	112.54 54.01 : 132.33	78.61 54.01 : 132.33	87.38 54.01 : 132.33	83.87 54.01 : 132.33	93.75 54.01 : 132.33
Branched PFOS (Raw)	TM440	112.7 54.09 : 142.61	83.59 54.09 : 142.61	95.12 54.09 : 142.61	89.53 54.09 : 142.61	102.23 54.09 : 142.61
EtFOSAA (Raw)	TM440	106.1 52.48 : 138.36	79.97 52.48 : 138.36	91.23 52.48 : 138.36	101.66 52.48 : 138.36	97.37 52.48 : 138.36
EtFOSE (Raw)	TM440	111.85 57.05 : 145.29	79.68 57.05 : 145.29	91.71 57.05 : 145.29	89.54 57.05 : 145.29	99.23 57.05 : 145.29
FBSA (Raw)	TM440	105.38 49.51 : 125.13	79.91 49.51 : 125.13	87.19 49.51 : 125.13	81.8 49.51 : 125.13	94.43 49.51 : 125.13
FHxSA (Raw)	TM440	112.62 50.38 : 132.82	82.07 50.38 : 132.82	98.03 50.38 : 132.82	86.88 50.38 : 132.82	92.05 50.38 : 132.82
HFPO-DA (Raw)	TM440	125.87 53.47 : 140.98	89.63 53.47 : 140.98	98.94 53.47 : 140.98	95.27 53.47 : 140.98	95.66 53.47 : 140.98
HFPO-TA (Raw)	TM440	128.91 54.77 : 144.39	95.74 54.77 : 144.39	106.84 54.77 : 144.39	100.58 54.77 : 144.39	99.9 54.77 : 144.39
L-PFOS (Raw)	TM440	109.2 54.09 : 142.61	85.38 54.09 : 142.61	88.17 54.09 : 142.61	99.76 54.09 : 142.61	105.12 54.09 : 142.61
MeFOSAA (Raw)	TM440	110.06 53.02 : 139.78	79.91 53.02 : 139.78	92.71 53.02 : 139.78	90.96 53.02 : 139.78	100.02 53.02 : 139.78
MeFOSE (Raw)	TM440	121.42 54.99 : 144.97	80.76 54.99 : 144.97	86.83 54.99 : 144.97	79.5 54.99 : 144.97	95.69 54.99 : 144.97
N-EtFOSA (Raw)	TM440	103.23 59.56 : 132.93	73.64 59.56 : 132.93	88.37 59.56 : 132.93	79.73 59.56 : 132.93	91.67 59.56 : 132.93
NFDHA (Raw)	TM440	117.73 57.35 : 151.20	87.57 57.35 : 151.20	99.8 57.35 : 151.20	88.42 57.35 : 151.20	95.21 57.35 : 151.20
N-MeFOSA (Raw)	TM440	96.61 59.19 : 133.01	81.09 59.19 : 133.01	93.78 59.19 : 133.01	97.12 59.19 : 133.01	102.7 59.19 : 133.01
PFBA (Raw)	TM440	108.02 52.69 : 138.91	76.85 52.69 : 138.91	84.07 52.69 : 138.91	88.03 52.69 : 138.91	94.98 52.69 : 138.91



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PFAS in soils

		QC 3243	QC 3210	QC 3201	QC 3289	QC 3249
PFBS (Raw)	TM440	104.77 53.31 : 140.54	77.85 53.31 : 140.54	88.69 53.31 : 140.54	82.8 53.31 : 140.54	103.79 53.31 : 140.54
PFDA (Raw)	TM440	123.77 53.39 : 140.76	81.23 53.39 : 140.76	91.63 53.39 : 140.76	87.82 53.39 : 140.76	96.97 53.39 : 140.76
PFDoA (Raw)	TM440	121.21 52.85 : 139.34	79.49 52.85 : 139.34	91.75 52.85 : 139.34	91.77 52.85 : 139.34	96.27 52.85 : 139.34
PFDoS (Raw)	TM440	109.8 55.29 : 145.76	75.6 55.29 : 145.76	96.95 55.29 : 145.76	91.94 55.29 : 145.76	92.86 55.29 : 145.76
PFDS (Raw)	TM440	105.81 52.94 : 139.56	83.79 52.94 : 139.56	91.8 52.94 : 139.56	92.02 52.94 : 139.56	99.04 52.94 : 139.56
PFecHS (Raw)	TM440	105.68 50.75 : 133.80	70.86 50.75 : 133.80	90.07 50.75 : 133.80	93.13 50.75 : 133.80	85.93 50.75 : 133.80
PFEESA (Raw)	TM440	104.42 50.87 : 134.12	73.74 50.87 : 134.12	86.67 50.87 : 134.12	83.74 50.87 : 134.12	103.42 50.87 : 134.12
PFHpA (Raw)	TM440	110.27 52.61 : 138.69	77.73 52.61 : 138.69	89.52 52.61 : 138.69	84.0 52.61 : 138.69	104.13 52.61 : 138.69
PFHpS (Raw)	TM440	115.26 55.29 : 145.76	83.24 55.29 : 145.76	91.66 55.29 : 145.76	90.58 55.29 : 145.76	95.54 55.29 : 145.76
PFHxA (Raw)	TM440	111.46 54.05 : 142.50	81.92 54.05 : 142.50	89.96 54.05 : 142.50	88.63 54.05 : 142.50	101.02 54.05 : 142.50
PFHxDA (Raw)	TM440	112.93 52.03 : 137.17	85.83 52.03 : 137.17	102.64 52.03 : 137.17	99.9 52.03 : 137.17	96.45 52.03 : 137.17
PFHxS (Raw)	TM440	106.65 53.56 : 141.19	67.06 53.56 : 141.19	92.39 53.56 : 141.19	92.66 53.56 : 141.19	87.11 53.56 : 141.19
PFMOBA (Raw)	TM440	114.47 52.73 : 139.02	78.01 52.73 : 139.02	95.69 52.73 : 139.02	95.94 52.73 : 139.02	92.99 52.73 : 139.02
PFMOPra (Raw)	TM440	110.33 52.57 : 138.58	72.6 52.57 : 138.58	98.09 52.57 : 138.58	81.01 52.57 : 138.58	86.96 52.57 : 138.58
PFNA (Raw)	TM440	116.35 52.94 : 139.56	82.14 52.94 : 139.56	88.11 52.94 : 139.56	92.18 52.94 : 139.56	95.73 52.94 : 139.56
PFNS (Raw)	TM440	111.55 54.38 : 143.37	77.66 54.38 : 143.37	89.23 54.38 : 143.37	88.81 54.38 : 143.37	97.69 54.38 : 143.37
PFOA (Raw)	TM440	114.21 53.80 : 141.85	80.55 53.80 : 141.85	90.95 53.80 : 141.85	91.26 53.80 : 141.85	99.75 53.80 : 141.85
PFODA (Raw)	TM440	105.16 56.03 : 147.72	79.23 56.03 : 147.72	92.8 56.03 : 147.72	92.65 56.03 : 147.72	89.52 56.03 : 147.72
PFOSA (Raw)	TM440	121.51 53.10 : 140.00	74.82 53.10 : 140.00	100.87 53.10 : 140.00	85.25 53.10 : 140.00	93.82 53.10 : 140.00
PFFPA (Raw)	TM440	115.48 53.89 : 142.06	55.9 53.89 : 142.06	95.66 53.89 : 142.06	86.87 53.89 : 142.06	100.78 53.89 : 142.06
PFPeS (Raw)	TM440	115.13 54.30 : 143.15	76.89 54.30 : 143.15	97.66 54.30 : 143.15	92.78 54.30 : 143.15	89.95 54.30 : 143.15
PFTeA (Raw)	TM440	111.07 53.06 : 139.89	82.86 53.06 : 139.89	89.19 53.06 : 139.89	91.01 53.06 : 139.89	98.24 53.06 : 139.89
PFTrDA (Raw)	TM440	103.19 51.70 : 136.30	80.5 51.70 : 136.30	86.99 51.70 : 136.30	89.7 51.70 : 136.30	96.31 51.70 : 136.30
PFTrDS (Raw)	TM440	111.13 56.24 : 148.26	82.53 56.24 : 148.26	102.91 56.24 : 148.26	86.65 56.24 : 148.26	92.93 56.24 : 148.26
PFUnA (Raw)	TM440	113.25 53.35 : 140.65	80.34 53.35 : 140.65	89.15 53.35 : 140.65	90.76 53.35 : 140.65	92.82 53.35 : 140.65
PFUnDS (Raw)	TM440	109.84 53.60 : 141.30	85.0 53.60 : 141.30	101.95 53.60 : 141.30	87.11 53.60 : 141.30	86.89 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3220	QC 3297	QC 3281
11CI-PF3OUdS (763051-92-9)	TM434	114.59 62.16 : 138.51	109.73 71.39 : 130.11	113.09 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	122.82 89.89 : 130.69	105.97 53.44 : 140.89	98.07 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	121.15 66.54 : 140.56	103.92 80.71 : 134.26	113.6 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	109.55 60.34 : 133.39	108.8 64.44 : 139.44	89.65 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	111.29 59.12 : 129.56	90.81 58.31 : 142.44	110.67 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	116.57 67.48 : 129.58	99.92 73.93 : 134.90	117.58 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	120.07 79.83 : 133.08	105.98 61.23 : 140.88	92.3 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	122.15 81.70 : 132.18	103.0 82.68 : 128.35	110.88 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	106.65 71.98 : 136.03	107.82 69.20 : 147.13	109.23 71.98 : 136.03
ADONA (919005-14-4)	TM434	124.31 70.14 : 142.14	101.16 73.23 : 135.10	108.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	121.1 67.04 : 131.16	99.9 72.95 : 133.93	98.42 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	118.43 67.92 : 135.38	122.17 67.47 : 136.89	124.58 67.92 : 135.38
FBSA (30334-69-1)	TM434	124.87 58.08 : 137.20	109.98 63.70 : 143.28	100.03 58.08 : 137.20
FHxSA (41997-13-1)	TM434	125.48 71.81 : 148.16	108.74 63.00 : 139.73	104.4 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	120.53 57.03 : 123.70	105.03 67.58 : 142.95	107.55 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	117.59 55.94 : 147.48	95.38 69.04 : 147.42	114.09 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	131.7 69.95 : 145.18	105.16 70.63 : 141.88	103.35 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	114.61 68.44 : 128.29	92.28 75.64 : 130.69	101.44 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	120.53 70.83 : 132.00	112.11 72.41 : 131.62	128.81 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	79.28 59.26 : 122.86	178.47 57.83 : 132.08	143.83 59.26 : 122.86
NFDHA (151772-58-6)	TM434	116.51 59.99 : 133.56	102.78 57.60 : 134.40	103.31 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	91.55 62.71 : 118.96	151.49 61.69 : 135.49	119.46 62.71 : 118.96
PFBA (375-22-4)	TM434	115.84 67.84 : 130.39	97.44 74.68 : 133.63	102.04 67.84 : 130.39
PFBS (375-73-5)	TM434	119.05 90.25 : 126.25	102.03 74.09 : 133.79	108.69 90.25 : 126.25
PFDA (335-76-2)	TM434	117.97 68.94 : 132.99	105.08 72.39 : 135.76	109.49 68.94 : 132.99
PFDaA (307-55-1)	TM434	121.52 66.19 : 135.04	104.49 58.06 : 148.21	106.6 66.19 : 135.04
PFDoS (79780-39-5)	TM434	112.45 65.90 : 146.45	98.69 74.76 : 130.94	109.06 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3220	QC 3297	QC 3281
PFDS (335-77-3)	TM434	114.08 64.84 : 138.49	109.93 58.61 : 140.44	114.03 64.84 : 138.49
PFEESA (113507-82-7)	TM434	121.35 67.24 : 129.19	99.95 62.25 : 138.08	106.16 67.24 : 129.19
PFHpA (375-85-9)	TM434	127.15 72.89 : 141.36	94.95 75.71 : 136.46	111.05 72.89 : 141.36
PFHpS (375-92-8)	TM434	130.42 72.19 : 155.36	104.61 76.13 : 132.38	110.89 72.19 : 155.36
PFHxA (307-24-4)	TM434	122.21 71.79 : 135.84	101.99 78.16 : 133.89	103.23 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	120.12 89.96 : 128.14	99.51 71.24 : 136.49	110.66 89.96 : 128.14
PFHxS (355-46-4)	TM434	114.75 84.41 : 134.44	102.75 73.25 : 135.20	111.4 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	115.94 84.99 : 139.74	104.0 76.41 : 130.26	105.75 84.99 : 139.74
PFMOPra (377-73-1)	TM434	116.22 80.40 : 136.73	108.64 65.74 : 128.74	92.03 80.40 : 136.73
PFNA (375-95-1)	TM434	113.48 68.61 : 128.99	91.79 75.01 : 133.06	101.11 68.61 : 128.99
PFNS (68259-12-1)	TM434	125.82 70.70 : 130.93	112.89 74.74 : 129.26	140.1 70.70 : 130.93
PFOA (335-67-1)	TM434	128.42 74.09 : 143.61	99.18 74.76 : 136.11	109.34 74.09 : 143.61
PFODA (16517-11-6)	TM434	156.8 68.70 : 175.88	86.54 53.58 : 141.25	112.6 68.70 : 175.88
PFOSA (754-91-6)	TM434	117.14 67.59 : 130.51	100.07 76.54 : 135.04	118.89 67.59 : 130.51
PFPA (2706-90-3)	TM434	128.01 74.20 : 140.58	103.73 77.89 : 134.66	115.93 74.20 : 140.58
PFPeS (2706-91-4)	TM434	122.06 76.19 : 137.91	100.83 69.49 : 132.71	113.88 76.19 : 137.91
PFTeA (376-06-7)	TM434	126.12 66.36 : 144.96	98.08 61.66 : 143.71	115.94 66.36 : 144.96
PFTrDA (72629-94-8)	TM434	113.32 71.98 : 130.25	93.31 67.04 : 136.04	120.96 71.98 : 130.25
PFUnA (2058-94-8)	TM434	120.67 65.55 : 141.45	97.28 70.21 : 138.54	97.49 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	114.64 85.84 : 139.76	104.56 71.45 : 127.25	118.23 85.84 : 139.76

pH

Component	Method Code	QC 3295	QC 3205	QC 3281	QC 3207	QC 3269	QC 3279
pH	TM133	102.19 95.29 : 105.24	101.57 95.29 : 105.24	101.38 95.29 : 105.24	101.73 95.29 : 105.24	102.73 95.29 : 105.24	101.6 95.29 : 105.24



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pH

Component	Method Code	QC 3267	QC 3273
pH	TM133	102.87 95.29 : 105.24	102.12 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3297	QC 3288	QC 3226	QC 3206	QC 3279	QC 3273
Total Organic Carbon	TM132	94.43 93.61 : 106.00	97.09 93.61 : 106.00	97.07 93.61 : 106.00	96.2 93.61 : 106.00	95.4 93.61 : 106.00	96.34 93.61 : 106.00

Component	Method Code	QC 3297
Total Organic Carbon	TM132	96.29 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 23 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251011-64
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781205
Order Number: UK-70100310-403

This report has been revised and directly supersedes 780935 in its entirety.

We received 23 samples on Saturday October 11, 2025 and 20 of these samples were scheduled for analysis which was completed on Thursday October 23, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32281229	GR04-SP415-A	ES	0.00 - 0.10	09/10/2025
32281252	GR04-SP415-A	ES	0.20 - 0.30	09/10/2025
32281262	GR04-SP415-A	ES	0.40 - 0.50	09/10/2025
32281265	GR04-SP417-A	ES	0.00 - 0.10	09/10/2025
32281267	GR04-SP417-A	ES	0.30 - 0.40	09/10/2025
32281269	GR04-SP417-A	ES	0.40 - 0.50	09/10/2025
32281243	LP33-SP318	ES	0.00 - 0.10	09/10/2025
32281245	LP33-SP318	ES	0.30 - 0.40	09/10/2025
32281248	LP33-SP318	ES	0.40 - 0.50	09/10/2025
32281254	LP33-SP326	WT	0.00 - 0.00	09/10/2025
32281250	LP33-SP326	ES	0.00 - 0.10	09/10/2025
32281258	LP33-SP326	ES	0.30 - 0.40	09/10/2025
32281260	LP33-SP326	ES	0.40 - 0.50	09/10/2025
32281271	LP33-SP317-S1	WT	0.00 - 0.00	09/10/2025
32281275	LP33-SP317-S1	ES	0.10 - 0.20	09/10/2025
32281277	LP33-SP317-S1	ESA1	0.20 - 0.30	09/10/2025
32281231	LP33-SP317-S1	ESA2	0.20 - 0.30	09/10/2025
32281233	LP33-SP317-S1	ES	0.50 - 0.60	09/10/2025
32281227	LP33-SP317-S2		0.00 - 0.15	09/10/2025
32281235	LP33-SP317-S2	ES	0.10 - 0.20	09/10/2025
32281237	LP33-SP317-S2	ESA1	0.20 - 0.30	09/10/2025
32281239	LP33-SP317-S2	ESA2	0.20 - 0.30	09/10/2025
32281241	LP33-SP317-S2	ES	0.50 - 0.60	09/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

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SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
TS - Saline Water
TE - Trade Effluent
US - Treated Sewage
UT - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32281237	LP3-SP317-S2	ES1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32281233	LP3-SP317-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32281231	LP3-SP317-S1	ES1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32281277	LP3-SP317-S1	ES1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32281275	LP3-SP317-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32281271	LP3-SP317-S1	WT	0.00 - 0.00	50ml digtube (ALE001)	PW						
	32281260	LP3-SP326	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32281258	LP3-SP326	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32281250	LP3-SP326	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32281254	LP3-SP326	WT	0.00 - 0.00	50ml digtube (ALE001)	PW						
	32281248	LP3-SP318	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32281245	LP3-SP318	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32281243	LP3-SP318	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32281269	GR04-SP417-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32281267	GR04-SP417-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32281265	GR04-SP417-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32281262	GR04-SP415-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32281252	GR04-SP415-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32281229	GR04-SP415-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 2									
pH		All	NDPs: 0 Tests: 18									
Sample description		All	NDPs: 0 Tests: 16									
Total Organic Carbon		All	NDPs: 0 Tests: 18									

32281239	LP33-SP317-S2	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32281229	GR04-SP415-A	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	Stones
32281252	GR04-SP415-A	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Crushed Brick
32281262	GR04-SP415-A	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32281265	GR04-SP417-A	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32281267	GR04-SP417-A	0.30 - 0.40	Dark Brown	Silty Clay	Stones	Vegetation
32281269	GR04-SP417-A	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32281243	LP33-SP318	0.00 - 0.10	Dark Brown	Sand	Stones	Vegetation
32281245	LP33-SP318	0.30 - 0.40	Dark Brown	Sandy Clay	Brick	Stones
32281248	LP33-SP318	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32281250	LP33-SP326	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32281258	LP33-SP326	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32281260	LP33-SP326	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32281231	LP33-SP317-S1	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32281233	LP33-SP317-S1	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32281275	LP33-SP317-S1	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32281277	LP33-SP317-S1	0.20 - 0.30	Dark Brown	Sand	Stones	Vegetation
32281237	LP33-SP317-S2	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Plastic	Stones
32281239	LP33-SP317-S2	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.	GR04-SP415-A	GR04-SP415-A	GR04-SP415-A	GR04-SP417-A	GR04-SP417-A	GR04-SP417-A
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Moisture Content Ratio (%) (as of as received sample)	%	PM024	17	16	14	25	18	17	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.43	6.95	1.26	5.12	2.02	1.72	
pH	1 pH Units	TM133	8.09	8.23	8.08	6.57	7.33	7.72	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.56	5.45	3.81	3.99	2.06	1.22	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.37	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.	LP33-SP318	LP33-SP318	LP33-SP318	LP33-SP326	LP33-SP326	LP33-SP326
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.		LP33-SP318	LP33-SP318	LP33-SP318	LP33-SP326	LP33-SP326	LP33-SP326
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.00	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
tot.unfilt	Total / unfiltered sample.				251011-64	251011-64	251011-64	251011-64	251011-64	251011-64
* Subcontracted - refer to subcontractor report for accreditation status.					32281243	32281245	32281248	32281254	32281250	32281258
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024			9.9	14	12		16	16
Soil Organic Matter (SOM)	<0.35 %	TM132			2.67	3.12	2.74		2.34	1.78
pH	1 pH Units	TM133			8.33	8.33	8.51		8.15	8.06
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			0.778	<0.5	<0.5		<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8		<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1		<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.		LP33-SP318	LP33-SP318	LP33-SP318	LP33-SP326	LP33-SP326	LP33-SP326
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281243 ES	0.30 - 0.40 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281245 ES	0.40 - 0.50 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281248 ES	0.00 - 0.00 Process Water (PR) 09/10/2025 11/10/2025 251011-64 32281254 WT	0.00 - 0.10 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281250 ES	0.30 - 0.40 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281258 ES
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.89	1.39	2.23		2.44	2.5
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		2.33	1.95
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			0.768	<0.6	<0.6		9.76	1.42
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.		LP33-SP326	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.00	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025	09/10/2025
diss.filt	Dissolved / filtered sample.				11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
tot.unfilt	Total / unfiltered sample.				251011-64	251011-64	251011-64	251011-64	251011-64	251011-64
* Subcontracted - refer to subcontractor report for accreditation status.					32281260	32281271	32281275	32281277	32281231	32281233
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ESA1	ESA2	ES
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.		LP33-SP326	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.40 - 0.50 Soil/Solid (S) 09/10/2025	0.00 - 0.00 Process Water (PR) 09/10/2025	0.10 - 0.20 Soil/Solid (S) 09/10/2025	0.20 - 0.30 Soil/Solid (S) 09/10/2025	0.20 - 0.30 Soil/Solid (S) 09/10/2025	0.50 - 0.60 Soil/Solid (S) 09/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025	11/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251011-64	251011-64	251011-64	251011-64	251011-64	251011-64
*** 6:2 FTAB (see appendix)					32281260	32281271	32281275	32281277	32281231	32281233
1-4**@ Sample deviation (see appendix)					ES	WT	ES	ESA1	ESA2	ES
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			15		17	13	18	15
Soil Organic Matter (SOM)	<0.35 %	TM132			1.42		2.83	1.93	2.91	1.45
pH	1 pH Units	TM133			8.17		8.05	8.24	8.26	8.35
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.	LP33-SP326	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281260 ES	0.00 - 0.00 Process Water (PR) 09/10/2025 11/10/2025 251011-64 32281271 WT	0.10 - 0.20 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281275 ES	0.20 - 0.30 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281277 ESA1	0.20 - 0.30 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281231 ESA2	0.50 - 0.60 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281233 ES
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		6.81		7.73	5.96	4.71	4.19
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		2.35		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		1.34		1.1	0.947	1.01	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

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CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend			Customer Sample Ref.		LP33-SP317-S2		LP33-SP317-S2					
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30		0.20 - 0.30					
M	mCERTS accredited.				Soil/Solid (S)		Soil/Solid (S)					
aq	Aqueous / settled sample.				09/10/2025		09/10/2025					
diss.filt	Dissolved / filtered sample.				11/10/2025		11/10/2025					
tot.unfilt	Total / unfiltered sample.				251011-64		251011-64					
* Subcontracted - refer to subcontractor report for accreditation status.					32281237		32281239					
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1		ESA2					
*** 6.2 FTAB (see appendix)												
1-4*§@ Sample deviation (see appendix)												
Component	LOD/Units	Method										
Moisture Content Ratio (% of as received sample)	%	PM024	19		15							
Soil Organic Matter (SOM)	<0.35 %	TM132	3.43		2.21		#		#			
pH	1 pH Units	TM133	8.24		8.05		M		M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5							
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8							
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5		<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5		<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5		<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5		<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	6.14		7.3							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5		<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5		<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10		<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5		<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6		<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9		<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4		<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5		<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5		<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6		<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6		<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5		<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

Superseded Report: 780935

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	LP33-SP317-S2 0.20 - 0.30 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281237 ESA1	LP33-SP317-S2 0.20 - 0.30 Soil/Solid (S) 09/10/2025 11/10/2025 251011-64 32281239 ESA2				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4				
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5				
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8				
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFDaA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6				
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6				
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6				
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7				
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
MeFOSE (24448-09-7)	<5 µg/kg	TM440	<5	<5				
PFHxDA (67905-19-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
N-MeFOSA (31506-32-8)	<0.5 µg/kg	TM440	<0.5	<0.5				
8:2 diPAP (678-41-1)	<0.9 µg/kg	TM440	<0.9	<0.9				
EtFOSE (1691-99-2)	<5 µg/kg	TM440	<5	<5				
N-EtFOSA (4151-50-2)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFODA (16517-11-6)	<0.5 µg/kg	TM440	<0.5	<0.5				
Total PFOS	<0.6 µg/kg	TM440	<0.6	<0.6				
Total Identified PFAS	<51 µg/kg	TM440	<51	<51				



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Validated

SDG: 251011-64 Report Number: 781205 Superseded Report: 780935
Client Ref.: UK-70100310 Location: Thornton Phase 3

Data Amendment

Sample No. : 32281252 Date of Amendment : 16/10/2025 Authorised: Mantas Rogulis Origin:

Sample Ref.	Reason	Test Name	Result Name	Units	Previous	Amended
GR04-SP415-A	Analytical/Quality Issue	Sample description	Inclusion 2)	1	Vegetation	Crushed brick



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SDG: 251011-64
Client Ref.: UK-70100310

Report Number: 781205
Location: Thornton Phase 3

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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32281229	32281252	32281262	32281265	32281267	32281269	32281243	32281245	32281248	32281250
	GR04-SP415-A	GR04-SP415-A	GR04-SP415-A	GR04-SP417-A	GR04-SP417-A	GR04-SP417-A	LP33-SP318	LP33-SP318	LP33-SP318	LP33-SP326
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
AGS Ref.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Depth	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	20-Oct-2025	21-Oct-2025	15-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	23-Oct-2025
pH	17-Oct-2025	17-Oct-2025	15-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	16-Oct-2025	16-Oct-2025	15-Oct-2025	17-Oct-2025
Sample description	16-Oct-2025	16-Oct-2025	13-Oct-2025	16-Oct-2025	15-Oct-2025	16-Oct-2025	15-Oct-2025	15-Oct-2025	13-Oct-2025	15-Oct-2025
Total Organic Carbon	21-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025	20-Oct-2025	21-Oct-2025	20-Oct-2025	20-Oct-2025	21-Oct-2025	20-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32281254	32281258	32281260	32281231	32281233	32281271	32281275	32281277	32281237	32281239
	LP33-SP326	LP33-SP326	LP33-SP326	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S1	LP33-SP317-S2	LP33-SP317-S2
	WT	ES	ES	ESA2	ES	WT	ES	ESA1	ESA1	ESA2
	0.00 - 0.00	0.30 - 0.40	0.40 - 0.50	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.20 - 0.30
AGS Ref.	WT	ES	ES	ESA2	ES	WT	ES	ESA1	ESA1	ESA2
Depth	0.00 - 0.00	0.30 - 0.40	0.40 - 0.50	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.20 - 0.30
Type	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025		20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025
PFAS Liquids (Full Suite)	23-Oct-2025					23-Oct-2025				
pH		17-Oct-2025	16-Oct-2025	17-Oct-2025	17-Oct-2025		15-Oct-2025	16-Oct-2025	17-Oct-2025	15-Oct-2025
Sample description		16-Oct-2025	15-Oct-2025	16-Oct-2025	16-Oct-2025		13-Oct-2025	15-Oct-2025	16-Oct-2025	13-Oct-2025
Total Organic Carbon		21-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025		20-Oct-2025	20-Oct-2025	21-Oct-2025	21-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3243	QC 3210	QC 3201	QC 3289	QC 3233	QC 3249
10:2 FTS (Raw)	TM440	97.21 53.10 : 140.00	77.33 53.10 : 140.00	73.91 53.10 : 140.00	82.61 53.10 : 140.00	95.47 53.10 : 140.00	92.52 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	110.84 53.56 : 141.19	80.33 53.56 : 141.19	94.41 53.56 : 141.19	85.53 53.56 : 141.19	97.77 53.56 : 141.19	95.1 53.56 : 141.19
3:3 FTCA (Raw)	TM440	115.71 50.54 : 133.25	68.44 50.54 : 133.25	111.42 50.54 : 133.25	86.25 50.54 : 133.25	92.76 50.54 : 133.25	79.44 50.54 : 133.25
4:2 FTS (Raw)	TM440	112.26 56.34 : 145.91	78.3 56.34 : 145.91	92.52 56.34 : 145.91	87.44 56.34 : 145.91	96.94 56.34 : 145.91	97.29 56.34 : 145.91
5:3 FTCA (Raw)	TM440	111.52 52.66 : 130.08	81.98 52.66 : 130.08	92.97 52.66 : 130.08	84.65 52.66 : 130.08	99.35 52.66 : 130.08	98.33 52.66 : 130.08
6:2 FTAB (Raw)	TM440	53.07 38.50 : 101.50	37.86 38.50 : 101.50	32.93 38.50 : 101.50	36.34 38.50 : 101.50	38.9 38.50 : 101.50	38.61 38.50 : 101.50
6:2 FTS (Raw)	TM440	102.87 54.79 : 144.46	69.21 54.79 : 144.46	81.3 54.79 : 144.46	78.92 54.79 : 144.46	90.15 54.79 : 144.46	95.82 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.95 48.60 : 128.14	76.45 48.60 : 128.14	94.14 48.60 : 128.14	83.93 48.60 : 128.14	84.78 48.60 : 128.14	99.37 48.60 : 128.14
8:2 diPAP (Raw)	TM440	122.1 56.03 : 147.72	70.39 56.03 : 147.72	92.31 56.03 : 147.72	98.28 56.03 : 147.72	98.11 56.03 : 147.72	97.6 56.03 : 147.72
8:2 FTS (Raw)	TM440	99.08 55.74 : 146.96	78.75 55.74 : 146.96	86.75 55.74 : 146.96	84.03 55.74 : 146.96	104.75 55.74 : 146.96	113.87 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	112.23 54.59 : 143.91	79.54 54.59 : 143.91	93.51 54.59 : 143.91	90.88 54.59 : 143.91	99.74 54.59 : 143.91	96.74 54.59 : 143.91
ADONA (Raw)	TM440	112.54 54.01 : 132.33	78.61 54.01 : 132.33	87.38 54.01 : 132.33	83.87 54.01 : 132.33	97.77 54.01 : 132.33	93.75 54.01 : 132.33
Branched PFOS (Raw)	TM440	112.7 54.09 : 142.61	83.59 54.09 : 142.61	95.12 54.09 : 142.61	89.53 54.09 : 142.61	102.97 54.09 : 142.61	102.23 54.09 : 142.61
EtFOSAA (Raw)	TM440	106.1 52.48 : 138.36	79.97 52.48 : 138.36	91.23 52.48 : 138.36	101.66 52.48 : 138.36	106.63 52.48 : 138.36	97.37 52.48 : 138.36
EtFOSE (Raw)	TM440	111.85 57.05 : 145.29	79.68 57.05 : 145.29	91.71 57.05 : 145.29	89.54 57.05 : 145.29	95.75 57.05 : 145.29	99.23 57.05 : 145.29
FBSA (Raw)	TM440	105.38 49.51 : 125.13	79.91 49.51 : 125.13	87.19 49.51 : 125.13	81.8 49.51 : 125.13	91.62 49.51 : 125.13	94.43 49.51 : 125.13
FHxSA (Raw)	TM440	112.62 50.38 : 132.82	82.07 50.38 : 132.82	98.03 50.38 : 132.82	86.88 50.38 : 132.82	92.54 50.38 : 132.82	92.05 50.38 : 132.82
HFPO-DA (Raw)	TM440	125.87 53.47 : 140.98	89.63 53.47 : 140.98	98.94 53.47 : 140.98	95.27 53.47 : 140.98	105.36 53.47 : 140.98	95.66 53.47 : 140.98
HFPO-TA (Raw)	TM440	128.91 54.77 : 144.39	95.74 54.77 : 144.39	106.84 54.77 : 144.39	100.58 54.77 : 144.39	109.59 54.77 : 144.39	99.9 54.77 : 144.39
L-PFOS (Raw)	TM440	109.2 54.09 : 142.61	85.38 54.09 : 142.61	88.17 54.09 : 142.61	99.76 54.09 : 142.61	93.63 54.09 : 142.61	105.12 54.09 : 142.61
MeFOSAA (Raw)	TM440	110.06 53.02 : 139.78	79.91 53.02 : 139.78	92.71 53.02 : 139.78	90.96 53.02 : 139.78	97.23 53.02 : 139.78	100.02 53.02 : 139.78
MeFOSE (Raw)	TM440	121.42 54.99 : 144.97	80.76 54.99 : 144.97	86.83 54.99 : 144.97	79.5 54.99 : 144.97	93.41 54.99 : 144.97	95.69 54.99 : 144.97
N-EtFOSA (Raw)	TM440	103.23 59.56 : 132.93	73.64 59.56 : 132.93	88.37 59.56 : 132.93	79.73 59.56 : 132.93	94.55 59.56 : 132.93	91.67 59.56 : 132.93
NFDHA (Raw)	TM440	117.73 57.35 : 151.20	87.57 57.35 : 151.20	99.8 57.35 : 151.20	88.42 57.35 : 151.20	99.54 57.35 : 151.20	95.21 57.35 : 151.20
N-MeFOSA (Raw)	TM440	96.61 59.19 : 133.01	81.09 59.19 : 133.01	93.78 59.19 : 133.01	97.12 59.19 : 133.01	99.04 59.19 : 133.01	102.7 59.19 : 133.01
PFBA (Raw)	TM440	108.02 52.69 : 138.91	76.85 52.69 : 138.91	84.07 52.69 : 138.91	88.03 52.69 : 138.91	94.01 52.69 : 138.91	94.98 52.69 : 138.91



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PFAS in soils

		QC 3243	QC 3210	QC 3201	QC 3289	QC 3233	QC 3249
PFBS (Raw)	TM440	104.77 53.31 : 140.54	77.85 53.31 : 140.54	88.69 53.31 : 140.54	82.8 53.31 : 140.54	92.54 53.31 : 140.54	103.79 53.31 : 140.54
PFDA (Raw)	TM440	123.77 53.39 : 140.76	81.23 53.39 : 140.76	91.63 53.39 : 140.76	87.82 53.39 : 140.76	99.16 53.39 : 140.76	96.97 53.39 : 140.76
PFDoA (Raw)	TM440	121.21 52.85 : 139.34	79.49 52.85 : 139.34	91.75 52.85 : 139.34	91.77 52.85 : 139.34	98.18 52.85 : 139.34	96.27 52.85 : 139.34
PFDoS (Raw)	TM440	109.8 55.29 : 145.76	75.6 55.29 : 145.76	96.95 55.29 : 145.76	91.94 55.29 : 145.76	97.99 55.29 : 145.76	92.86 55.29 : 145.76
PFDS (Raw)	TM440	105.81 52.94 : 139.56	83.79 52.94 : 139.56	91.8 52.94 : 139.56	92.02 52.94 : 139.56	95.07 52.94 : 139.56	99.04 52.94 : 139.56
PFecHS (Raw)	TM440	105.68 50.75 : 133.80	70.86 50.75 : 133.80	90.07 50.75 : 133.80	93.13 50.75 : 133.80	94.41 50.75 : 133.80	85.93 50.75 : 133.80
PFEESA (Raw)	TM440	104.42 50.87 : 134.12	73.74 50.87 : 134.12	86.67 50.87 : 134.12	83.74 50.87 : 134.12	89.45 50.87 : 134.12	103.42 50.87 : 134.12
PFHpA (Raw)	TM440	110.27 52.61 : 138.69	77.73 52.61 : 138.69	89.52 52.61 : 138.69	84.0 52.61 : 138.69	102.2 52.61 : 138.69	104.13 52.61 : 138.69
PFHpS (Raw)	TM440	115.26 55.29 : 145.76	83.24 55.29 : 145.76	91.66 55.29 : 145.76	90.58 55.29 : 145.76	100.66 55.29 : 145.76	95.54 55.29 : 145.76
PFHxA (Raw)	TM440	111.46 54.05 : 142.50	81.92 54.05 : 142.50	89.96 54.05 : 142.50	88.63 54.05 : 142.50	95.14 54.05 : 142.50	101.02 54.05 : 142.50
PFHxDA (Raw)	TM440	112.93 52.03 : 137.17	85.83 52.03 : 137.17	102.64 52.03 : 137.17	99.9 52.03 : 137.17	107.52 52.03 : 137.17	96.45 52.03 : 137.17
PFHxS (Raw)	TM440	106.65 53.56 : 141.19	67.06 53.56 : 141.19	92.39 53.56 : 141.19	92.66 53.56 : 141.19	89.27 53.56 : 141.19	87.11 53.56 : 141.19
PFMOBA (Raw)	TM440	114.47 52.73 : 139.02	78.01 52.73 : 139.02	95.69 52.73 : 139.02	95.94 52.73 : 139.02	93.35 52.73 : 139.02	92.99 52.73 : 139.02
PFMOPra (Raw)	TM440	110.33 52.57 : 138.58	72.6 52.57 : 138.58	98.09 52.57 : 138.58	81.01 52.57 : 138.58	89.75 52.57 : 138.58	86.96 52.57 : 138.58
PFNA (Raw)	TM440	116.35 52.94 : 139.56	82.14 52.94 : 139.56	88.11 52.94 : 139.56	92.18 52.94 : 139.56	94.75 52.94 : 139.56	95.73 52.94 : 139.56
PFNS (Raw)	TM440	111.55 54.38 : 143.37	77.66 54.38 : 143.37	89.23 54.38 : 143.37	88.81 54.38 : 143.37	98.65 54.38 : 143.37	97.69 54.38 : 143.37
PFOA (Raw)	TM440	114.21 53.80 : 141.85	80.55 53.80 : 141.85	90.95 53.80 : 141.85	91.26 53.80 : 141.85	98.22 53.80 : 141.85	99.75 53.80 : 141.85
PFODA (Raw)	TM440	105.16 56.03 : 147.72	79.23 56.03 : 147.72	92.8 56.03 : 147.72	92.65 56.03 : 147.72	112.41 56.03 : 147.72	89.52 56.03 : 147.72
PFOSA (Raw)	TM440	121.51 53.10 : 140.00	74.82 53.10 : 140.00	100.87 53.10 : 140.00	85.25 53.10 : 140.00	93.74 53.10 : 140.00	93.82 53.10 : 140.00
PFPA (Raw)	TM440	115.48 53.89 : 142.06	55.9 53.89 : 142.06	95.66 53.89 : 142.06	86.87 53.89 : 142.06	95.78 53.89 : 142.06	100.78 53.89 : 142.06
PFPeS (Raw)	TM440	115.13 54.30 : 143.15	76.89 54.30 : 143.15	97.66 54.30 : 143.15	92.78 54.30 : 143.15	92.19 54.30 : 143.15	89.95 54.30 : 143.15
PFTeA (Raw)	TM440	111.07 53.06 : 139.89	82.86 53.06 : 139.89	89.19 53.06 : 139.89	91.01 53.06 : 139.89	96.6 53.06 : 139.89	98.24 53.06 : 139.89
PFTrDA (Raw)	TM440	103.19 51.70 : 136.30	80.5 51.70 : 136.30	86.99 51.70 : 136.30	89.7 51.70 : 136.30	98.45 51.70 : 136.30	96.31 51.70 : 136.30
PFTrDS (Raw)	TM440	111.13 56.24 : 148.26	82.53 56.24 : 148.26	102.91 56.24 : 148.26	86.65 56.24 : 148.26	99.79 56.24 : 148.26	92.93 56.24 : 148.26
PFUnA (Raw)	TM440	113.25 53.35 : 140.65	80.34 53.35 : 140.65	89.15 53.35 : 140.65	90.76 53.35 : 140.65	97.94 53.35 : 140.65	92.82 53.35 : 140.65
PFUnDS (Raw)	TM440	109.84 53.60 : 141.30	85.0 53.60 : 141.30	101.95 53.60 : 141.30	87.11 53.60 : 141.30	105.12 53.60 : 141.30	86.89 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3281
11CI-PF3OUdS (763051-92-9)	TM434	113.09 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	98.07 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	113.6 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	89.65 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	110.67 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	117.58 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	92.3 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	110.88 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	109.23 71.98 : 136.03
ADONA (919005-14-4)	TM434	108.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	98.42 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	124.58 67.92 : 135.38
FBSA (30334-69-1)	TM434	100.03 58.08 : 137.20
FHxSA (41997-13-1)	TM434	104.4 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	107.55 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	114.09 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	103.35 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	101.44 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	128.81 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	143.83 59.26 : 122.86
NFDHA (151772-58-6)	TM434	103.31 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	119.46 62.71 : 118.96
PFBA (375-22-4)	TM434	102.04 67.84 : 130.39
PFBS (375-73-5)	TM434	108.69 90.25 : 126.25
PFDA (335-76-2)	TM434	109.49 68.94 : 132.99
PFDaA (307-55-1)	TM434	106.6 66.19 : 135.04
PFDoS (79780-39-5)	TM434	109.06 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3281
PFDS (335-77-3)	TM434	114.03 64.84 : 138.49
PFEESA (113507-82-7)	TM434	106.16 67.24 : 129.19
PFHpA (375-85-9)	TM434	111.05 72.89 : 141.36
PFHpS (375-92-8)	TM434	110.89 72.19 : 155.36
PFHxA (307-24-4)	TM434	103.23 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	110.66 89.96 : 128.14
PFHxS (355-46-4)	TM434	111.4 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	105.75 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	92.03 80.40 : 136.73
PFNA (375-95-1)	TM434	101.11 68.61 : 128.99
PFNS (68259-12-1)	TM434	140.1 70.70 : 130.93
PFOA (335-67-1)	TM434	109.34 74.09 : 143.61
PFODA (16517-11-6)	TM434	112.6 68.70 : 175.88
PFOSA (754-91-6)	TM434	118.89 67.59 : 130.51
PFPA (2706-90-3)	TM434	115.93 74.20 : 140.58
PFPeS (2706-91-4)	TM434	113.88 76.19 : 137.91
PFTeA (376-06-7)	TM434	115.94 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	120.96 71.98 : 130.25
PFUnA (2058-94-8)	TM434	97.49 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	118.23 85.84 : 139.76

pH

Component	Method Code	QC 3281	QC 3205	QC 3269	QC 3279	QC 3265	QC 3267
pH	TM133	101.38 95.29 : 105.24	101.57 95.29 : 105.24	102.73 95.29 : 105.24	101.6 95.29 : 105.24	102.69 95.29 : 105.24	102.87 95.29 : 105.24



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pH

Component	Method Code	QC 3273
pH	TM133	102.12 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3297	QC 3288	QC 3226	QC 3279	QC 3273	QC 3297
Total Organic Carbon	TM132	94.43 93.61 : 106.00	97.09 93.61 : 106.00	97.07 93.61 : 106.00	95.4 93.61 : 106.00	96.34 93.61 : 106.00	96.29 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 29 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251016-26
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781575
Order Number: UK-70100310-403

This report has been revised and directly supersedes 781332 in its entirety.

We received 27 samples on Tuesday October 14, 2025 and 25 of these samples were scheduled for analysis which was completed on Wednesday October 29, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32297631	GR03-SP334-A-S1	ES	0.10 - 0.20	10/10/2025
32297655	GR03-SP334-A-S1	ESA1	0.20 - 0.30	10/10/2025
32297673	GR03-SP334-A-S1	ESA2	0.20 - 0.30	10/10/2025
32297675	GR03-SP334-A-S1	ES	0.50 - 0.60	10/10/2025
32297677	GR03-SP334-A-S2	ES	0.10 - 0.20	10/10/2025
32297679	GR03-SP334-A-S2	ESA1	0.20 - 0.30	10/10/2025
32297681	GR03-SP334-A-S2	ESA2	0.20 - 0.30	10/10/2025
32297683	GR03-SP334-A-S2	ES	0.50 - 0.60	10/10/2025
32297685	GR03-SP334-B	ES	0.00 - 0.10	10/10/2025
32297633	GR03-SP334-B	ES	0.20 - 0.30	10/10/2025
32297635	GR03-SP334-B	ES	0.40 - 0.50	10/10/2025
32297637	GR03-SP334-C	ES	0.10 - 0.20	10/10/2025
32297639	GR03-SP334-C	ES	0.30 - 0.40	10/10/2025
32297641	GR03-SP334-C	ES	0.50 - 0.60	10/10/2025
32297643	GR03-SP334-D	ES	0.00 - 0.10	10/10/2025
32297645	GR03-SP334-D	ES	0.30 - 0.40	10/10/2025
32297647	GR03-SP334-D	ES	0.40 - 0.50	10/10/2025
32297649	GR03-SP334-E	ES	0.10 - 0.20	10/10/2025
32297651	GR03-SP334-E	WT	0.10 - 0.20	10/10/2025
32297657	GR03-SP334-E	ES	0.20 - 0.30	10/10/2025
32297659	GR03-SP334-E	ES	0.50 - 0.60	10/10/2025
32297661	GR03-SP334-F	ES	0.00 - 0.10	10/10/2025
32297663	GR03-SP334-F	ES	0.30 - 0.40	10/10/2025
32297665	GR03-SP334-F	ES	0.40 - 0.50	10/10/2025
32297667	GR03-SP334-G	ESALS	0.10 - 0.20	10/10/2025
32297669	GR03-SP334-G	ES	0.30 - 0.40	10/10/2025
32297671	GR03-SP334-G	ES	0.50 - 0.60	10/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
32297659	GR03-SP334-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32297657	GR03-SP334-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32297651	GR03-SP334-E	WT	0.10 - 0.20	50ml digitube (ALE001)	PW
32297649	GR03-SP334-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32297647	GR03-SP334-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32297645	GR03-SP334-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32297643	GR03-SP334-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32297641	GR03-SP334-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32297639	GR03-SP334-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32297637	GR03-SP334-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32297635	GR03-SP334-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32297633	GR03-SP334-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32297685	GR03-SP334-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32297681	GR03-SP334-A-S2	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32297679	GR03-SP334-A-S2	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32297675	GR03-SP334-A-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32297673	GR03-SP334-A-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32297655	GR03-SP334-A-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32297631	GR03-SP334-A-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
PFAS in soils	All	NDPs: 0 Tests: 24			
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 1			
pH	All	NDPs: 0 Tests: 24			
Sample description	All	NDPs: 0 Tests: 23			
Total Organic Carbon	All	NDPs: 0 Tests: 24			

32297671	GR03-SP334-G	ES	0.50 - 0.60	1 kg TUB with Handle (ALE260)	S	X			X		X
32297669	GR03-SP334-G	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S	X			X		X
32297667	GR03-SP334-G	ESALS	0.10 - 0.20	1 kg TUB with Handle (ALE260)	S	X			X		X
32297665	GR03-SP334-F	ES	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X			X		X
32297663	GR03-SP334-F	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S	X			X	X	X
32297661	GR03-SP334-F	ES	0.00 - 0.10	1 kg TUB with Handle (ALE260)	S	X			X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32297631	GR03-SP334-A-S1	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32297655	GR03-SP334-A-S1	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	None
32297673	GR03-SP334-A-S1	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	None
32297675	GR03-SP334-A-S1	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32297679	GR03-SP334-A-S2	0.20 - 0.30	Dark Brown	Sandy Loam	Crushed Brick	Vegetation
32297681	GR03-SP334-A-S2	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	None
32297633	GR03-SP334-B	0.20 - 0.30	Dark Brown	Silty Clay	Stones	Vegetation
32297635	GR03-SP334-B	0.40 - 0.50	Light Brown	Silty Clay	Stones	Vegetation
32297685	GR03-SP334-B	0.00 - 0.10	Dark Brown	Silty Clay	Stones	Vegetation
32297637	GR03-SP334-C	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32297639	GR03-SP334-C	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32297641	GR03-SP334-C	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Crushed Brick	Vegetation
32297643	GR03-SP334-D	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32297645	GR03-SP334-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32297647	GR03-SP334-D	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32297649	GR03-SP334-E	0.10 - 0.20	Light Brown	Clay Loam	Stones	Vegetation
32297657	GR03-SP334-E	0.20 - 0.30	Light Brown	Clay Loam	Stones	Vegetation
32297659	GR03-SP334-E	0.50 - 0.60	Light Brown	Clay Loam	Stones	Vegetation
32297661	GR03-SP334-F	0.00 - 0.10	Dark Brown	Silty Clay Loam	Brick	Stones
32297663	GR03-SP334-F	0.30 - 0.40	Light Brown	Clay Loam	Stones	Vegetation
32297665	GR03-SP334-F	0.40 - 0.50	Light Brown	Clay Loam	Crushed Brick	Stones
32297667	GR03-SP334-G	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	None
32297669	GR03-SP334-G	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32297671	GR03-SP334-G	0.50 - 0.60	Dark Brown	Clay	None	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend			Customer Sample Ref.		GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S2	GR03-SP334-A-S2
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	0.10 - 0.20 Soil/Solid (S) 10/10/2025	0.20 - 0.30 Soil/Solid (S) 10/10/2025	0.20 - 0.30 Soil/Solid (S) 10/10/2025	0.50 - 0.60 Soil/Solid (S) 10/10/2025	0.20 - 0.30 Soil/Solid (S) 10/10/2025	0.20 - 0.30 Soil/Solid (S) 10/10/2025	0.20 - 0.30 Soil/Solid (S) 10/10/2025	0.20 - 0.30 Soil/Solid (S) 10/10/2025
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024	23	21	22	22	21	22		
Soil Organic Matter (SOM)	<0.35 %	TM132	4.62	5.19	6.76	2.81	4.57	5.07		
pH	1 pH Units	TM133	7.2	7.18	7.16	7.13	7.25	7.19		
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.8	2.6	3.06	4.75	2.3	2		
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.68	1.04	0.999	<0.6	1.12	0.946		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP334-B	GR03-SP334-B	GR03-SP334-B	GR03-SP334-C	GR03-SP334-C	GR03-SP334-C
# ISO17025 accredited.				0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.				251016-26	251016-26	251016-26	251016-26	251016-26	251016-26
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				32297685	32297633	32297635	32297637	32297639	32297641
*** 6:2 FTAB (see appendix)				ES	ES	ES	ES	ES	ES
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	22	22	22	23	22	20	
Soil Organic Matter (SOM)	<0.35 %	TM132	7.09	4.6	2.74	6.26	3.57	2.17	
pH	1 pH Units	TM133	7.28	7.28	7.21	7.18	7.2	7.24	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	0.87	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.89	2.29	3.36	1.52	3.46	4.8	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	0.772	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.69	1.11	<0.6	1.34	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP334-D 0.00 - 0.10 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297643 ES	GR03-SP334-D 0.30 - 0.40 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297645 ES	GR03-SP334-D 0.40 - 0.50 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297647 ES	GR03-SP334-E 0.10 - 0.20 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297649 ES	GR03-SP334-E 0.10 - 0.20 Process Water (PR) 10/10/2025 14/10/2025 251016-26 32297651 WT	GR03-SP334-E 0.20 - 0.30 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297657 ES							
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4* @ Sample deviation (see appendix)	Component								LOD/Units	Method					
PFBA (375-22-4)	<0.002 µg/l								TM434					<0.002	
PFMOPrA (377-73-1)	<0.001 µg/l								TM434					<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l								TM434					<0.005	
PFPa (2706-90-3)	<0.001 µg/l								TM434					<0.001	
PfMOBA (863090-89-5)	<0.001 µg/l								TM434					<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l								TM434					<0.001	
NFDHA (151772-58-6)	<0.003 µg/l								TM434					<0.003	
PFBS (375-73-5)	<0.001 µg/l								TM434					<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001								
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002								
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001								
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001								
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001								
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005								
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001								
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001								
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001								
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065								
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001								
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001								
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001								
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002								
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005								
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002								
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002 @								
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005								
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065								
Branched PFOS	<0.00065 µg/l	TM434					<0.00065								
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002 @								
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002								
9Cl-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001								
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001								
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001								



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend			Customer Sample Ref.	GR03-SP334-D	GR03-SP334-D	GR03-SP334-D	GR03-SP334-E	GR03-SP334-E	GR03-SP334-E
# ISO17025 accredited. m mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. *** 6:2 FTAB (see appendix) 1-4* Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297643 ES	0.30 - 0.40 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297645 ES	0.40 - 0.50 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297647 ES	0.10 - 0.20 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297649 ES	0.10 - 0.20 Process Water (PR) 10/10/2025 14/10/2025 251016-26 32297651 WT	0.20 - 0.30 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297657 ES
Component	LOD/Units	Method							
PFDaA (307-55-1)	<0.002 µg/l	TM434						<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01	
Total PFOS	<0.00065 µg/l	TM434						<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	23	21	20	23			20
Soil Organic Matter (SOM)	<0.35 %	TM132	6.55 #	3.53 #	2.65 #	10.6 #			6.09 #
pH	1 pH Units	TM133	7.15 M	7.18 M	7.16 M	7.19 M			7.49 M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8			<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	0.901			<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8			<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1			<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend			Customer Sample Ref.		GR03-SP334-D	GR03-SP334-D	GR03-SP334-D	GR03-SP334-E	GR03-SP334-E	GR03-SP334-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025
diss.filt	Dissolved / filtered sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
tot.unfilt	Total / unfiltered sample.				251016-26	251016-26	251016-26	251016-26	251016-26	251016-26
* Subcontracted - refer to subcontractor report for accreditation status.					32297643	32297645	32297647	32297649	32297651	32297657
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.39	2.7	2.89	3.65		1.83
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			0.901	2.74	1.97	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			4.24	6.68	<0.6	3.6		0.879
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend			Customer Sample Ref.		GR03-SP334-E	GR03-SP334-F	GR03-SP334-F	GR03-SP334-F	GR03-SP334-G	GR03-SP334-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025
diss.filt	Dissolved / filtered sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
tot.unfilt	Total / unfiltered sample.				251016-26	251016-26	251016-26	251016-26	251016-26	251016-26
* Subcontracted - refer to subcontractor report for accreditation status.					32297659	32297661	32297663	32297665	32297667	32297669
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	25	24	20	23	22
Soil Organic Matter (SOM)	<0.35 %	TM132			1.5	7.09	7.69	2.02	6.52	5.59
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.37	7.3	7.22	7.46	7.5	7.51
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.91	2.51	2.96	2.76	2.78	2.74
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	0.748	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	2.72	2.13	<0.6	1.62	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend		Customer Sample Ref.	GR03-SP334-G				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Soil/Solid (S) 10/10/2025 14/10/2025 251016-26 32297671 ES				
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
* Subcontracted - refer to subcontractor report for accreditation status.							
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
*** 6:2 FTAB (see appendix)							
1-4*§@ Sample deviation (see appendix)							
Component	LOD/Units	Method					
Moisture Content Ratio (% of as received sample)	%	PM024	21				
Soil Organic Matter (SOM)	<0.35 %	TM132	2.48	#			
pH	1 pH Units	TM133	7.51	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5				
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5				
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.66				
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5				
Branched PFOS	<0.6 µg/kg	TM440	<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5				



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SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

Results Legend		Customer Sample Ref.	GR03-SP334-G					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
Component	LOD/Units	Method						
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4					
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5					
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5					
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8					
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5					
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5					
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6					
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6					
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6					
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7					
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5					
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5					
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5					
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5					
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440	<0.5					
MeFOSE (24448-09-7)	<5 µg/kg	TM440	<5					
PFHxDA (67905-19-5)	<0.5 µg/kg	TM440	<0.5					
N-MeFOSA (31506-32-8)	<0.5 µg/kg	TM440	<0.5					
8:2 diPAP (678-41-1)	<0.9 µg/kg	TM440	<0.9					
EtFOSE (1691-99-2)	<5 µg/kg	TM440	<5					
N-EtFOSA (4151-50-2)	<0.5 µg/kg	TM440	<0.5					
PFODA (16517-11-6)	<0.5 µg/kg	TM440	<0.5					
Total PFOS	<0.6 µg/kg	TM440	<0.6					
Total Identified PFAS	<51 µg/kg	TM440	<51					



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Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Superseded Report: 781332

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32297631	32297655	32297673	32297675	32297679	32297681	32297633	32297635	32297685	32297637
	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S2	GR03-SP334-A-S2	GR03-SP334-B	GR03-SP334-B	GR03-SP334-B	GR03-SP334-C
	ES	ESA1	ESA2	ES	ESA1	ESA2	ES	ES	ES	ES
	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.50 - 0.60	0.20 - 0.30	0.20 - 0.30	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.10 - 0.20
AGS Ref.										
Depth										
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	24-Oct-2025	24-Oct-2025	24-Oct-2025	23-Oct-2025
pH	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025
Sample description	16-Oct-2025	16-Oct-2025	16-Oct-2025	16-Oct-2025	16-Oct-2025	16-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025
Total Organic Carbon	29-Oct-2025	27-Oct-2025	29-Oct-2025	28-Oct-2025	29-Oct-2025	27-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	27-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32297639	32297641	32297643	32297645	32297647	32297649	32297651	32297657	32297659	32297661
	GR03-SP334-C	GR03-SP334-C	GR03-SP334-D	GR03-SP334-D	GR03-SP334-D	GR03-SP334-E	GR03-SP334-E	GR03-SP334-E	GR03-SP334-E	GR03-SP334-F
	ES	ES	ES	ES	ES	ES	WT	ES	ES	ES
	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
AGS Ref.										
Depth										
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	23-Oct-2025	20-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025		23-Oct-2025	23-Oct-2025	24-Oct-2025
PFAS Liquids (Full Suite)							23-Oct-2025			
pH	20-Oct-2025	17-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025		20-Oct-2025	20-Oct-2025	20-Oct-2025
Sample description	17-Oct-2025	16-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025		17-Oct-2025	17-Oct-2025	17-Oct-2025
Total Organic Carbon	28-Oct-2025	29-Oct-2025	27-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025		23-Oct-2025	27-Oct-2025	28-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32297663	32297665	32297667	32297669	32297671
	GR03-SP334-F	GR03-SP334-F	GR03-SP334-G	GR03-SP334-G	GR03-SP334-G
	ES	ES	ESALS	ES	ES
	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
AGS Ref.					
Depth					
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	23-Oct-2025	23-Oct-2025	20-Oct-2025	21-Oct-2025	20-Oct-2025
pH	20-Oct-2025	20-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025
Sample description	17-Oct-2025	17-Oct-2025	16-Oct-2025	16-Oct-2025	16-Oct-2025
Total Organic Carbon	28-Oct-2025	28-Oct-2025	27-Oct-2025	27-Oct-2025	28-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3201	QC 3284	QC 3233	QC 3203	QC 3207
10:2 FTS (Raw)	TM440	73.91 53.10 : 140.00	85.91 53.10 : 140.00	95.47 53.10 : 140.00	101.0 53.10 : 140.00	82.58 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	94.41 53.56 : 141.19	89.99 53.56 : 141.19	97.77 53.56 : 141.19	97.04 53.56 : 141.19	85.6 53.56 : 141.19
3:3 FTCA (Raw)	TM440	111.42 50.54 : 133.25	88.75 50.54 : 133.25	92.76 50.54 : 133.25	96.83 50.54 : 133.25	71.04 50.54 : 133.25
4:2 FTS (Raw)	TM440	92.52 56.34 : 145.91	93.21 56.34 : 145.91	96.94 56.34 : 145.91	100.58 56.34 : 145.91	88.28 56.34 : 145.91
5:3 FTCA (Raw)	TM440	92.97 52.66 : 130.08	88.18 52.66 : 130.08	99.35 52.66 : 130.08	104.03 52.66 : 130.08	80.93 52.66 : 130.08
6:2 FTAB (Raw)	TM440	32.93 38.50 : 101.50	36.97 38.50 : 101.50	38.9 38.50 : 101.50	38.13 38.50 : 101.50	34.31 38.50 : 101.50
6:2 FTS (Raw)	TM440	81.3 54.79 : 144.46	84.74 54.79 : 144.46	90.15 54.79 : 144.46	96.72 54.79 : 144.46	91.19 54.79 : 144.46
7:3 FTCA (Raw)	TM440	94.14 48.60 : 128.14	91.15 48.60 : 128.14	84.78 48.60 : 128.14	91.91 48.60 : 128.14	74.09 48.60 : 128.14
8:2 diPAP (Raw)	TM440	92.31 56.03 : 147.72	97.11 56.03 : 147.72	98.11 56.03 : 147.72	126.25 56.03 : 147.72	100.66 56.03 : 147.72
8:2 FTS (Raw)	TM440	86.75 55.74 : 146.96	93.87 55.74 : 146.96	104.75 55.74 : 146.96	100.77 55.74 : 146.96	85.71 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	93.51 54.59 : 143.91	95.05 54.59 : 143.91	99.74 54.59 : 143.91	97.09 54.59 : 143.91	90.93 54.59 : 143.91
ADONA (Raw)	TM440	87.38 54.01 : 132.33	92.86 54.01 : 132.33	97.77 54.01 : 132.33	100.54 54.01 : 132.33	84.06 54.01 : 132.33
Branched PFOS (Raw)	TM440	95.12 54.09 : 142.61	97.1 54.09 : 142.61	102.97 54.09 : 142.61	115.92 54.09 : 142.61	97.27 54.09 : 142.61
EtFOSAA (Raw)	TM440	91.23 52.48 : 138.36	110.1 52.48 : 138.36	106.63 52.48 : 138.36	122.3 52.48 : 138.36	83.02 52.48 : 138.36
EtFOSE (Raw)	TM440	91.71 57.05 : 145.29	90.99 57.05 : 145.29	95.75 57.05 : 145.29	104.43 57.05 : 145.29	87.51 57.05 : 145.29
FBSA (Raw)	TM440	87.19 49.51 : 125.13	83.73 49.51 : 125.13	91.62 49.51 : 125.13	98.79 49.51 : 125.13	77.85 49.51 : 125.13
FHxSA (Raw)	TM440	98.03 50.38 : 132.82	91.06 50.38 : 132.82	92.54 50.38 : 132.82	106.02 50.38 : 132.82	75.86 50.38 : 132.82
HFPO-DA (Raw)	TM440	98.94 53.47 : 140.98	101.71 53.47 : 140.98	105.36 53.47 : 140.98	109.68 53.47 : 140.98	85.63 53.47 : 140.98
HFPO-TA (Raw)	TM440	106.84 54.77 : 144.39	114.11 54.77 : 144.39	109.59 54.77 : 144.39	114.98 54.77 : 144.39	83.33 54.77 : 144.39
L-PFOS (Raw)	TM440	88.17 54.09 : 142.61	105.25 54.09 : 142.61	93.63 54.09 : 142.61	109.66 54.09 : 142.61	102.27 54.09 : 142.61
MeFOSAA (Raw)	TM440	92.71 53.02 : 139.78	93.72 53.02 : 139.78	97.23 53.02 : 139.78	119.99 53.02 : 139.78	81.98 53.02 : 139.78
MeFOSE (Raw)	TM440	86.83 54.99 : 144.97	82.16 54.99 : 144.97	93.41 54.99 : 144.97	96.26 54.99 : 144.97	88.7 54.99 : 144.97
N-EtFOSA (Raw)	TM440	88.37 59.56 : 132.93	86.56 59.56 : 132.93	94.55 59.56 : 132.93	99.01 59.56 : 132.93	80.5 59.56 : 132.93
NFDHA (Raw)	TM440	99.8 57.35 : 151.20	88.92 57.35 : 151.20	99.54 57.35 : 151.20	103.75 57.35 : 151.20	76.74 57.35 : 151.20
N-MeFOSA (Raw)	TM440	93.78 59.19 : 133.01	98.06 59.19 : 133.01	99.04 59.19 : 133.01	104.76 59.19 : 133.01	87.9 59.19 : 133.01
PFBA (Raw)	TM440	84.07 52.69 : 138.91	89.62 52.69 : 138.91	94.01 52.69 : 138.91	98.23 52.69 : 138.91	101.16 52.69 : 138.91



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PFAS in soils

		QC 3201	QC 3284	QC 3233	QC 3203	QC 3207
PFBS (Raw)	TM440	88.69 53.31 : 140.54	85.6 53.31 : 140.54	92.54 53.31 : 140.54	96.03 53.31 : 140.54	91.56 53.31 : 140.54
PFDA (Raw)	TM440	91.63 53.39 : 140.76	88.29 53.39 : 140.76	99.16 53.39 : 140.76	104.3 53.39 : 140.76	90.0 53.39 : 140.76
PFDoA (Raw)	TM440	91.75 52.85 : 139.34	93.84 52.85 : 139.34	98.18 52.85 : 139.34	109.99 52.85 : 139.34	93.7 52.85 : 139.34
PFDoS (Raw)	TM440	96.95 55.29 : 145.76	94.04 55.29 : 145.76	97.99 55.29 : 145.76	105.31 55.29 : 145.76	87.68 55.29 : 145.76
PFDS (Raw)	TM440	91.8 52.94 : 139.56	97.07 52.94 : 139.56	95.07 52.94 : 139.56	97.83 52.94 : 139.56	89.92 52.94 : 139.56
PFecHS (Raw)	TM440	90.07 50.75 : 133.80	90.34 50.75 : 133.80	94.41 50.75 : 133.80	108.61 50.75 : 133.80	81.41 50.75 : 133.80
PFEESA (Raw)	TM440	86.67 50.87 : 134.12	87.27 50.87 : 134.12	89.45 50.87 : 134.12	97.07 50.87 : 134.12	87.74 50.87 : 134.12
PFHpA (Raw)	TM440	89.52 52.61 : 138.69	92.12 52.61 : 138.69	102.2 52.61 : 138.69	102.86 52.61 : 138.69	94.15 52.61 : 138.69
PFHpS (Raw)	TM440	91.66 55.29 : 145.76	98.75 55.29 : 145.76	100.66 55.29 : 145.76	97.36 55.29 : 145.76	88.95 55.29 : 145.76
PFHxA (Raw)	TM440	89.96 54.05 : 142.50	89.89 54.05 : 142.50	95.14 54.05 : 142.50	94.28 54.05 : 142.50	90.58 54.05 : 142.50
PFHxDA (Raw)	TM440	102.64 52.03 : 137.17	98.96 52.03 : 137.17	107.52 52.03 : 137.17	116.2 52.03 : 137.17	86.74 52.03 : 137.17
PFHxS (Raw)	TM440	92.39 53.56 : 141.19	89.01 53.56 : 141.19	89.27 53.56 : 141.19	104.26 53.56 : 141.19	88.33 53.56 : 141.19
PFMOBA (Raw)	TM440	95.69 52.73 : 139.02	91.36 52.73 : 139.02	93.35 52.73 : 139.02	101.74 52.73 : 139.02	82.8 52.73 : 139.02
PFMOPra (Raw)	TM440	98.09 52.57 : 138.58	82.92 52.57 : 138.58	89.75 52.57 : 138.58	98.0 52.57 : 138.58	70.27 52.57 : 138.58
PFNA (Raw)	TM440	88.11 52.94 : 139.56	95.53 52.94 : 139.56	94.75 52.94 : 139.56	101.09 52.94 : 139.56	87.14 52.94 : 139.56
PFNS (Raw)	TM440	89.23 54.38 : 143.37	92.48 54.38 : 143.37	98.65 54.38 : 143.37	94.28 54.38 : 143.37	94.15 54.38 : 143.37
PFOA (Raw)	TM440	90.95 53.80 : 141.85	92.72 53.80 : 141.85	98.22 53.80 : 141.85	102.12 53.80 : 141.85	87.65 53.80 : 141.85
PFODA (Raw)	TM440	92.8 56.03 : 147.72	94.4 56.03 : 147.72	112.41 56.03 : 147.72	122.16 56.03 : 147.72	70.82 56.03 : 147.72
PFOSA (Raw)	TM440	100.87 53.10 : 140.00	87.81 53.10 : 140.00	93.74 53.10 : 140.00	101.28 53.10 : 140.00	85.42 53.10 : 140.00
PFFPA (Raw)	TM440	95.66 53.89 : 142.06	96.66 53.89 : 142.06	95.78 53.89 : 142.06	100.81 53.89 : 142.06	86.6 53.89 : 142.06
PFPeS (Raw)	TM440	97.66 54.30 : 143.15	84.33 54.30 : 143.15	92.19 54.30 : 143.15	109.49 54.30 : 143.15	85.12 54.30 : 143.15
PFTeA (Raw)	TM440	89.19 53.06 : 139.89	98.56 53.06 : 139.89	96.6 53.06 : 139.89	107.89 53.06 : 139.89	93.04 53.06 : 139.89
PFTrDA (Raw)	TM440	86.99 51.70 : 136.30	99.36 51.70 : 136.30	98.45 51.70 : 136.30	109.56 51.70 : 136.30	91.13 51.70 : 136.30
PFTrDS (Raw)	TM440	102.91 56.24 : 148.26	96.21 56.24 : 148.26	99.79 56.24 : 148.26	101.59 56.24 : 148.26	89.43 56.24 : 148.26
PFUnA (Raw)	TM440	89.15 53.35 : 140.65	93.73 53.35 : 140.65	97.94 53.35 : 140.65	108.55 53.35 : 140.65	85.43 53.35 : 140.65
PFUnDS (Raw)	TM440	101.95 53.60 : 141.30	94.57 53.60 : 141.30	105.12 53.60 : 141.30	107.95 53.60 : 141.30	82.39 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

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PFAS Liquids (Full Suite)

Component	Method Code	QC 3281
11CI-PF3OUdS (763051-92-9)	TM434	113.09 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	98.07 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	113.6 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	89.65 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	110.67 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	117.58 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	92.3 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	110.88 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	109.23 71.98 : 136.03
ADONA (919005-14-4)	TM434	108.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	98.42 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	124.58 67.92 : 135.38
FBSA (30334-69-1)	TM434	100.03 58.08 : 137.20
FHxSA (41997-13-1)	TM434	104.4 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	107.55 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	114.09 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	103.35 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	101.44 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	128.81 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	143.83 59.26 : 122.86
NFDHA (151772-58-6)	TM434	103.31 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	119.46 62.71 : 118.96
PFBA (375-22-4)	TM434	102.04 67.84 : 130.39
PFBS (375-73-5)	TM434	108.69 90.25 : 126.25
PFDA (335-76-2)	TM434	109.49 68.94 : 132.99
PFDaA (307-55-1)	TM434	106.6 66.19 : 135.04
PFDoS (79780-39-5)	TM434	109.06 65.90 : 146.45



CERTIFICATE OF ANALYSIS

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SDG: 251016-26
Client Ref.: UK-70100310

Report Number: 781575
Location: Thornton Phase 3

Superseded Report: 781332

PFAS Liquids (Full Suite)

		QC 3281
PFDS (335-77-3)	TM434	114.03 64.84 : 138.49
PFEESA (113507-82-7)	TM434	106.16 67.24 : 129.19
PFHpA (375-85-9)	TM434	111.05 72.89 : 141.36
PFHpS (375-92-8)	TM434	110.89 72.19 : 155.36
PFHxA (307-24-4)	TM434	103.23 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	110.66 89.96 : 128.14
PFHxS (355-46-4)	TM434	111.4 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	105.75 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	92.03 80.40 : 136.73
PFNA (375-95-1)	TM434	101.11 68.61 : 128.99
PFNS (68259-12-1)	TM434	140.1 70.70 : 130.93
PFOA (335-67-1)	TM434	109.34 74.09 : 143.61
PFODA (16517-11-6)	TM434	112.6 68.70 : 175.88
PFOSA (754-91-6)	TM434	118.89 67.59 : 130.51
PFPA (2706-90-3)	TM434	115.93 74.20 : 140.58
PFPeS (2706-91-4)	TM434	113.88 76.19 : 137.91
PFTeA (376-06-7)	TM434	115.94 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	120.96 71.98 : 130.25
PFUnA (2058-94-8)	TM434	97.49 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	118.23 85.84 : 139.76

pH

Component	Method Code	QC 3271	QC 3275	QC 3206	QC 3202	QC 3204
pH	TM133	102.41 95.29 : 105.24	102.89 95.29 : 105.24	102.32 95.29 : 105.24	102.5 95.29 : 105.24	102.34 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

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Report Number: 781575
Location: Thornton Phase 3

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Total Organic Carbon

Component	Method Code	QC 3277	QC 3264	QC 3252	QC 3215	QC 3221	QC 3234
Total Organic Carbon	TM132	96.48 93.61 : 106.00	96.66 93.61 : 106.00	97.31 93.61 : 106.00	96.6 93.61 : 106.00	97.26 93.61 : 106.00	96.18 93.61 : 106.00

Component	Method Code	QC 3245
Total Organic Carbon	TM132	96.77 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251016-26
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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
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Deeside
CH5 3US

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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 29 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251016-37
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781594
Order Number: UK-70100310-403

This report has been revised and directly supersedes 781331 in its entirety.

We received 26 samples on Thursday October 16, 2025 and 26 of these samples were scheduled for analysis which was completed on Wednesday October 29, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32298773	POUL-SP504-A-S1	ESA1	0.00 - 0.10	14/10/2025
32298801	POUL-SP504-A-S1	ESA2	0.00 - 0.10	14/10/2025
32298820	POUL-SP504-A-S1	ES	0.20 - 0.30	14/10/2025
32298822	POUL-SP504-A-S1	ES	0.40 - 0.50	14/10/2025
32298824	POUL-SP504-A-S2	ESA1	0.00 - 0.10	14/10/2025
32298826	POUL-SP504-A-S2	ESA2	0.00 - 0.10	14/10/2025
32298828	POUL-SP504-B	ES	0.10 - 0.20	14/10/2025
32298830	POUL-SP504-B	ES	0.30 - 0.40	14/10/2025
32298832	POUL-SP504-B	ES	0.50 - 0.60	14/10/2025
32298775	POUL-SP504-B	WT	0.50 - 0.60	14/10/2025
32298780	POUL-SP504-C	ES	0.00 - 0.10	14/10/2025
32298782	POUL-SP504-C	ES	0.30 - 0.40	14/10/2025
32298784	POUL-SP504-C	ES	0.40 - 0.50	14/10/2025
32298786	POUL-SP504-D	ES	0.10 - 0.20	14/10/2025
32298788	POUL-SP504-D	ES	0.20 - 0.30	14/10/2025
32298791	POUL-SP504-D	ES	0.50 - 0.60	14/10/2025
32298793	POUL-SP504-E	ES	0.00 - 0.10	14/10/2025
32298795	POUL-SP504-E	WS	0.00 - 0.50	14/10/2025
32298799	POUL-SP504-E	ES	0.20 - 0.30	14/10/2025
32298803	POUL-SP504-E	ES	0.40 - 0.50	14/10/2025
32298805	POUL-SP504-F	ES	0.10 - 0.20	14/10/2025
32298807	POUL-SP504-F	ES	0.30 - 0.40	14/10/2025
32298809	POUL-SP504-F	ES	0.50 - 0.60	14/10/2025
32298811	POUL-SP504-G	ES	0.00 - 0.10	14/10/2025
32298813	POUL-SP504-G	ES	0.30 - 0.40	14/10/2025
32298817	POUL-SP504-G	ES	0.40 - 0.50	14/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32298799	POUL-SP504-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32298795	POUL-SP504-E	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
	32298793	POUL-SP504-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32298791	POUL-SP504-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32298788	POUL-SP504-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32298786	POUL-SP504-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32298784	POUL-SP504-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32298782	POUL-SP504-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32298780	POUL-SP504-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32298775	POUL-SP504-B	WT	0.50 - 0.60	50ml digitube (ALE001)	PW						
	32298832	POUL-SP504-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32298830	POUL-SP504-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32298828	POUL-SP504-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32298826	POUL-SP504-A-S2	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32298824	POUL-SP504-A-S2	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32298822	POUL-SP504-A-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32298820	POUL-SP504-A-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32298801	POUL-SP504-A-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32298773	POUL-SP504-A-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS in soils	All	NDPs: 0 Tests: 24										
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2										
pH	All	NDPs: 0 Tests: 24										
Sample description	All	NDPs: 0 Tests: 24										
Total Organic Carbon	All	NDPs: 0 Tests: 24										

32298817	POUL-SP504-G	ES	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X			X		X		X
32298813	POUL-SP504-G	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S	X			X		X		X
32298811	POUL-SP504-G	ES	0.00 - 0.10	1 kg TUB with Handle (ALE260)	S	X			X		X		X
32298809	POUL-SP504-F	ES	0.50 - 0.60	1 kg TUB with Handle (ALE260)	S	X			X		X		X
32298807	POUL-SP504-F	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S	X			X		X		X
32298805	POUL-SP504-F	ES	0.10 - 0.20	1 kg TUB with Handle (ALE260)	S	X			X		X		X
32298803	POUL-SP504-E	ES	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S	X			X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32298773	POUL-SP504-A-S1	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32298801	POUL-SP504-A-S1	0.00 - 0.10	Dark Brown	Sandy Loam	Crushed Brick	Vegetation
32298820	POUL-SP504-A-S1	0.20 - 0.30	Dark Brown	Sandy Loam	Crushed Brick	Vegetation
32298822	POUL-SP504-A-S1	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Crushed Brick	Vegetation
32298824	POUL-SP504-A-S2	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32298826	POUL-SP504-A-S2	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32298828	POUL-SP504-B	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32298830	POUL-SP504-B	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32298832	POUL-SP504-B	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32298780	POUL-SP504-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32298782	POUL-SP504-C	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32298784	POUL-SP504-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32298786	POUL-SP504-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32298788	POUL-SP504-D	0.20 - 0.30	Dark Brown	Sandy Loam	Vegetation	None
32298791	POUL-SP504-D	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32298793	POUL-SP504-E	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32298799	POUL-SP504-E	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32298803	POUL-SP504-E	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32298805	POUL-SP504-F	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32298807	POUL-SP504-F	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	Stones
32298809	POUL-SP504-F	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32298811	POUL-SP504-G	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32298813	POUL-SP504-G	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Tile/Insulation Board
32298817	POUL-SP504-G	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-A-S1	POUL-SP504-A-S1	POUL-SP504-A-S1	POUL-SP504-A-S1	POUL-SP504-A-S2	POUL-SP504-A-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
diss.filt	Dissolved / filtered sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
tot.unfilt	Total / unfiltered sample.				251016-37	251016-37	251016-37	251016-37	251016-37	251016-37
Subcontracted - refer to subcontractor report for accreditation status.					32298773	32298801	32298820	32298822	32298824	32298826
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ES	ES	ESA1	ESA2
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			30	31	21	18	26	25
Soil Organic Matter (SOM)	<0.35 %	TM132			10.7	9.65	5.41	2.62	9.26	8.09
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.03	6.83	7.36	7.25	6.46	6.56
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.16	4.6	2.84	9.49	2.61	2.75
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-C	POUL-SP504-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
diss.filt	Dissolved / filtered sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
tot.unfilt	Total / unfiltered sample.				251016-37	251016-37	251016-37	251016-37	251016-37	251016-37
Subcontracted - refer to subcontractor report for accreditation status.					32298828	32298830	32298832	32298775	32298780	32298782
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002		
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002		
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-C	POUL-SP504-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1-4# @ Sample deviation (see appendix)	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
diss.filt	Dissolved / filtered sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
tot.unfilt	Total / unfiltered sample.				251016-37	251016-37	251016-37	251016-37	251016-37	251016-37
* Subcontracted - refer to subcontractor report for accreditation status.					32298828	32298830	32298832	32298775	32298780	32298782
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
Component			LOD/Units	Method						
PFDoA (307-55-1)			<0.002 µg/l	TM434				<0.002		
PFDS (335-77-3)			<0.002 µg/l	TM434				<0.002		
PFTrDA (72629-94-8)			<0.003 µg/l	TM434				<0.003		
11Cl-PF3OUdS (763051-92-9)			<0.002 µg/l	TM434				<0.002		
PFUnDS (749786-16-1)			<0.002 µg/l	TM434				<0.002		
PFTeA (376-06-7)			<0.001 µg/l	TM434				<0.001		
PFOSA (754-91-6)			<0.002 µg/l	TM434				<0.002		
PFDoS (79780-39-5)			<0.002 µg/l	TM434				<0.002		
PFHxDA (67905-19-5)			<0.001 µg/l	TM434				<0.001		
MeFOSE (24448-09-7)			<0.01 µg/l	TM434				<0.01		
N-MeFOSE (31506-32-8)			<0.001 µg/l	TM434				<0.001		
EtFOSE (1691-99-2)			<0.01 µg/l	TM434				<0.01		
PFODA (16517-11-6)			<0.001 µg/l	TM434				<0.001		
N-EtFOSE (4151-50-2)			<0.001 µg/l	TM434				<0.001		
6:2 FTAB (34455-29-3)			<0.01 µg/l	TM434				<0.01		
Total PFOS			<0.00065 µg/l	TM434				<0.00065		
Total PFAS DWI 47			<0.09 µg/l	TM434				<0.09		
PFecHS (646-83-3)			<0.001 µg/l	TM434				<0.001		
PFTrDS (791563-89-8)			<0.001 µg/l	TM434				<0.001		
Moisture Content Ratio (% of as received sample)			%	PM024	21	14	11		21	18
Soil Organic Matter (SOM)			<0.35 %	TM132	5.22	1.09	0.421		5.84	3.1
pH			1 pH Units	TM133	7.06	7.3	7.48		6.2	6.36
PFBA (375-22-4)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
PFMOPra (377-73-1)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
3:3 FTCA (356-02-5)			<0.8 µg/kg	TM440	<0.8	<0.8	<0.8		<0.8	<0.8
PFPA (2706-90-3)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
PFMOBA (863090-89-5)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
4:2 FTS (757124-72-4)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
NFDHA (151772-58-6)			<1.8 µg/kg	TM440	<1.8	<1.8	<1.8		<1.8	<1.8
PFHxA (307-24-4)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
PFBS (375-73-5)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5
HFPO-DA (13252-13-6)			<1 µg/kg	TM440	<1	<1	<1		<1	<1
PFEESA (113507-82-7)			<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-C	POUL-SP504-C
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)				0.10 - 0.20 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298828 ES	0.30 - 0.40 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298830 ES	0.50 - 0.60 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298832 ES	0.50 - 0.60 Process Water (PR) 14/10/2025 16/10/2025 251016-37 32298775 WT	0.00 - 0.10 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298780 ES	0.30 - 0.40 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298782 ES
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		4.09	2.98	1.24		4.15	4.88
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10		<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9		<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4		<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5		<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4	<1.4		<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8		<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6	
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7	<0.7		<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-C	POUL-SP504-D	POUL-SP504-D	POUL-SP504-D	POUL-SP504-E	POUL-SP504-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
diss.filt	Dissolved / filtered sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
tot.unfilt	Total / unfiltered sample.				251016-37	251016-37	251016-37	251016-37	251016-37	251016-37
Subcontracted - refer to subcontractor report for accreditation status.					32298784	32298786	32298788	32298791	32298793	32298795
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434								<0.002
PFMOPra (377-73-1)	<0.001 µg/l	TM434								<0.001
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434								<0.005
PFPA (2706-90-3)	<0.001 µg/l	TM434								<0.001
PFMOBA (863090-89-5)	<0.001 µg/l	TM434								<0.001
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434								<0.001
NFDHA (151772-58-6)	<0.003 µg/l	TM434								<0.003
PFBS (375-73-5)	<0.001 µg/l	TM434								<0.001
PFHxA (307-24-4)	<0.001 µg/l	TM434								<0.001
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434								<0.002
PFEESA (113507-82-7)	<0.001 µg/l	TM434								<0.001
PFHpA (375-85-9)	<0.001 µg/l	TM434								<0.001
PFPeS (2706-91-4)	<0.001 µg/l	TM434								<0.001
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434								<0.005
ADONA (919005-14-4)	<0.001 µg/l	TM434								<0.001
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434								<0.001
FBSA (30334-69-1)	<0.001 µg/l	TM434								<0.001
PFOA (335-67-1)	<0.00065 µg/l	TM434								<0.00065
PFHxS (355-46-4)	<0.001 µg/l	TM434								<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434								<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434								<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434								<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434								<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434								<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434								<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434								<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434								<0.00065
Branched PFOS	<0.00065 µg/l	TM434								<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434								<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434								<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434								<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434								<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434								<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-C	POUL-SP504-D	POUL-SP504-D	POUL-SP504-D	POUL-SP504-E	POUL-SP504-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
diss.filt	Dissolved / filtered sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
tot.unfilt	Total / unfiltered sample.				251016-37	251016-37	251016-37	251016-37	251016-37	251016-37
* Subcontracted - refer to subcontractor report for accreditation status.					32298784	32298786	32298788	32298791	32298793	32298795
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434								<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			17	22	21	16	18	
Soil Organic Matter (SOM)	<0.35 %	TM132			2	5.52	7.28	1.71	4.14	
					#	#	#	#	#	
pH	1 pH Units	TM133			6.67	6.68	6.62	6.91	5.96	
					M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-C	POUL-SP504-D	POUL-SP504-D	POUL-SP504-D	POUL-SP504-E	POUL-SP504-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 14/10/2025	0.10 - 0.20 Soil/Solid (S) 14/10/2025	0.20 - 0.30 Soil/Solid (S) 14/10/2025	0.50 - 0.60 Soil/Solid (S) 14/10/2025	0.00 - 0.10 Soil/Solid (S) 14/10/2025	0.00 - 0.50 Process Water (PR) 14/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					16/10/2025 251016-37 32298784 ES	16/10/2025 251016-37 32298786 ES	16/10/2025 251016-37 32298788 ES	16/10/2025 251016-37 32298791 ES	16/10/2025 251016-37 32298793 ES	16/10/2025 251016-37 32298795 WS
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.4	3.9	4.75	6.03	9.29	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

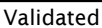
Validated

SDG: 251016-37
Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend			Customer Sample Ref.		POUL-SP504-E	POUL-SP504-E	POUL-SP504-F	POUL-SP504-F	POUL-SP504-F	POUL-SP504-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
diss.filt	Dissolved / filtered sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
tot.unfilt	Total / unfiltered sample.				251016-37	251016-37	251016-37	251016-37	251016-37	251016-37
Subcontracted - refer to subcontractor report for accreditation status.					32298799	32298803	32298805	32298807	32298809	32298811
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	18	27	20	19	27
Soil Organic Matter (SOM)	<0.35 %	TM132			3.83	3.93	15.8	5.78	4.47	18.4
pH	1 pH Units	TM133			5.95	6.17	7.38	7.12	7.06	7.06
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			13.5	11.8	6.45	5.41	7.53	4.82
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



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Client Ref.: UK-70100310

Report Number: 781594
Location: Thornton Phase 3

Superseded Report: 781331

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	POUL-SP504-G		POUL-SP504-G				
#	ISO17025 accredited.		0.30 - 0.40		0.40 - 0.50				
M	mCERTS accredited.		Soil/Solid (S)		Soil/Solid (S)				
aq	Aqueous / settled sample.		14/10/2025		14/10/2025				
diss.filt	Dissolved / filtered sample.		-		-				
tot.unfilt	Total / unfiltered sample.		16/10/2025		16/10/2025				
* Subcontracted - refer to subcontractor report for accreditation status.			251016-37		251016-37				
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32298813		32298817				
*** 6:2 FTAB (see appendix)			ES		ES				
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	20	19					
Soil Organic Matter (SOM)	<0.35 %	TM132	5.26	4.84					
			#	#					
pH	1 pH Units	TM133	6.6	6.55					
			M	M					
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5					
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8					
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5					
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8					
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5					
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1					
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5					
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5					
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.54	4.33					
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5					
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10					
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6					
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9					
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4					
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5					
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5					
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6					
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6					
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5					



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Location: Thornton Phase 3

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Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	POUL-SP504-G 0.30 - 0.40 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298813 ES	POUL-SP504-G 0.40 - 0.50 Soil/Solid (S) 14/10/2025 16/10/2025 251016-37 32298817 ES				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4				
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5				
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8				
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFDaA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6				
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6				
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6				
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7				
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
MeFOSE (24448-09-7)	<5 µg/kg	TM440	<5	<5				
PFHxDA (67905-19-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
N-MeFOSA (31506-32-8)	<0.5 µg/kg	TM440	<0.5	<0.5				
8:2 diPAP (678-41-1)	<0.9 µg/kg	TM440	<0.9	<0.9				
EtFOSE (1691-99-2)	<5 µg/kg	TM440	<5	<5				
N-EtFOSA (4151-50-2)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFODA (16517-11-6)	<0.5 µg/kg	TM440	<0.5	<0.5				
Total PFOS	<0.6 µg/kg	TM440	<0.6	<0.6				
Total Identified PFAS	<51 µg/kg	TM440	<51	<51				



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Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32298773	32298801	32298820	32298822	32298824	32298826	32298775	32298828	32298830	32298832
	POUL-SP504-A-S1	POUL-SP504-A-S1	POUL-SP504-A-S1	POUL-SP504-A-S1	POUL-SP504-A-S2	POUL-SP504-A-S2	POUL-SP504-B	POUL-SP504-B	POUL-SP504-B	POUL-SP504-B
	ESA1	ESA2	ES	ES	ESA1	ESA2	WT	ES	ES	ES
	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	23-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	23-Oct-2025	21-Oct-2025		23-Oct-2025	23-Oct-2025	23-Oct-2025
PFAS Liquids (Full Suite)							23-Oct-2025			
pH	20-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	20-Oct-2025	17-Oct-2025		20-Oct-2025	20-Oct-2025	20-Oct-2025
Sample description	17-Oct-2025	16-Oct-2025	16-Oct-2025	16-Oct-2025	17-Oct-2025	16-Oct-2025		17-Oct-2025	17-Oct-2025	17-Oct-2025
Total Organic Carbon	28-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	27-Oct-2025	22-Oct-2025		28-Oct-2025	28-Oct-2025	27-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32298780	32298782	32298784	32298786	32298788	32298791	32298793	32298795	32298799	32298803
	POUL-SP504-C	POUL-SP504-C	POUL-SP504-C	POUL-SP504-D	POUL-SP504-D	POUL-SP504-D	POUL-SP504-E	POUL-SP504-E	POUL-SP504-E	POUL-SP504-E
	ES	ES	ES	ES	ES	ES	ES	WS	ES	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025		23-Oct-2025	23-Oct-2025
PFAS Liquids (Full Suite)								23-Oct-2025		
pH	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025		20-Oct-2025	20-Oct-2025
Sample description	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025		17-Oct-2025	17-Oct-2025
Total Organic Carbon	28-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	28-Oct-2025		27-Oct-2025	27-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32298805	32298807	32298809	32298811	32298813	32298817
	POUL-SP504-F	POUL-SP504-F	POUL-SP504-F	POUL-SP504-G	POUL-SP504-G	POUL-SP504-G
	ES	ES	ES	ES	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025
pH	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025
Sample description	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025
Total Organic Carbon	28-Oct-2025	28-Oct-2025	28-Oct-2025	27-Oct-2025	29-Oct-2025	28-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3233	QC 3284	QC 3203
10:2 FTS (Raw)	TM440	95.47 53.10 : 140.00	85.91 53.10 : 140.00	101.0 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	97.77 53.56 : 141.19	89.99 53.56 : 141.19	97.04 53.56 : 141.19
3:3 FTCA (Raw)	TM440	92.76 50.54 : 133.25	88.75 50.54 : 133.25	96.83 50.54 : 133.25
4:2 FTS (Raw)	TM440	96.94 56.34 : 145.91	93.21 56.34 : 145.91	100.58 56.34 : 145.91
5:3 FTCA (Raw)	TM440	99.35 52.66 : 130.08	88.18 52.66 : 130.08	104.03 52.66 : 130.08
6:2 FTAB (Raw)	TM440	38.9 38.50 : 101.50	36.97 38.50 : 101.50	38.13 38.50 : 101.50
6:2 FTS (Raw)	TM440	90.15 54.79 : 144.46	84.74 54.79 : 144.46	96.72 54.79 : 144.46
7:3 FTCA (Raw)	TM440	84.78 48.60 : 128.14	91.15 48.60 : 128.14	91.91 48.60 : 128.14
8:2 diPAP (Raw)	TM440	98.11 56.03 : 147.72	97.11 56.03 : 147.72	126.25 56.03 : 147.72
8:2 FTS (Raw)	TM440	104.75 55.74 : 146.96	93.87 55.74 : 146.96	100.77 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	99.74 54.59 : 143.91	95.05 54.59 : 143.91	97.09 54.59 : 143.91
ADONA (Raw)	TM440	97.77 54.01 : 132.33	92.86 54.01 : 132.33	100.54 54.01 : 132.33
Branched PFOS (Raw)	TM440	102.97 54.09 : 142.61	97.1 54.09 : 142.61	115.92 54.09 : 142.61
EtFOSAA (Raw)	TM440	106.63 52.48 : 138.36	110.1 52.48 : 138.36	122.3 52.48 : 138.36
EtFOSE (Raw)	TM440	95.75 57.05 : 145.29	90.99 57.05 : 145.29	104.43 57.05 : 145.29
FBSA (Raw)	TM440	91.62 49.51 : 125.13	83.73 49.51 : 125.13	98.79 49.51 : 125.13
FHxSA (Raw)	TM440	92.54 50.38 : 132.82	91.06 50.38 : 132.82	106.02 50.38 : 132.82
HFPO-DA (Raw)	TM440	105.36 53.47 : 140.98	101.71 53.47 : 140.98	109.68 53.47 : 140.98
HFPO-TA (Raw)	TM440	109.59 54.77 : 144.39	114.11 54.77 : 144.39	114.98 54.77 : 144.39
L-PFOS (Raw)	TM440	93.63 54.09 : 142.61	105.25 54.09 : 142.61	109.66 54.09 : 142.61
MeFOSAA (Raw)	TM440	97.23 53.02 : 139.78	93.72 53.02 : 139.78	119.99 53.02 : 139.78
MeFOSE (Raw)	TM440	93.41 54.99 : 144.97	82.16 54.99 : 144.97	96.26 54.99 : 144.97
N-EtFOSA (Raw)	TM440	94.55 59.56 : 132.93	86.56 59.56 : 132.93	99.01 59.56 : 132.93
NFDHA (Raw)	TM440	99.54 57.35 : 151.20	88.92 57.35 : 151.20	103.75 57.35 : 151.20
N-MeFOSA (Raw)	TM440	99.04 59.19 : 133.01	98.06 59.19 : 133.01	104.76 59.19 : 133.01
PFBA (Raw)	TM440	94.01 52.69 : 138.91	89.62 52.69 : 138.91	98.23 52.69 : 138.91



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PFAS in soils

		QC 3233	QC 3284	QC 3203
PFBS (Raw)	TM440	92.54 53.31 : 140.54	85.6 53.31 : 140.54	96.03 53.31 : 140.54
PFDA (Raw)	TM440	99.16 53.39 : 140.76	88.29 53.39 : 140.76	104.3 53.39 : 140.76
PFDoA (Raw)	TM440	98.18 52.85 : 139.34	93.84 52.85 : 139.34	109.99 52.85 : 139.34
PFDoS (Raw)	TM440	97.99 55.29 : 145.76	94.04 55.29 : 145.76	105.31 55.29 : 145.76
PFDS (Raw)	TM440	95.07 52.94 : 139.56	97.07 52.94 : 139.56	97.83 52.94 : 139.56
PFecHS (Raw)	TM440	94.41 50.75 : 133.80	90.34 50.75 : 133.80	108.61 50.75 : 133.80
PFEESA (Raw)	TM440	89.45 50.87 : 134.12	87.27 50.87 : 134.12	97.07 50.87 : 134.12
PFHpA (Raw)	TM440	102.2 52.61 : 138.69	92.12 52.61 : 138.69	102.86 52.61 : 138.69
PFHpS (Raw)	TM440	100.66 55.29 : 145.76	98.75 55.29 : 145.76	97.36 55.29 : 145.76
PFHxA (Raw)	TM440	95.14 54.05 : 142.50	89.89 54.05 : 142.50	94.28 54.05 : 142.50
PFHxDA (Raw)	TM440	107.52 52.03 : 137.17	98.96 52.03 : 137.17	116.2 52.03 : 137.17
PFHxS (Raw)	TM440	89.27 53.56 : 141.19	89.01 53.56 : 141.19	104.26 53.56 : 141.19
PFMOBA (Raw)	TM440	93.35 52.73 : 139.02	91.36 52.73 : 139.02	101.74 52.73 : 139.02
PFMOPrA (Raw)	TM440	89.75 52.57 : 138.58	82.92 52.57 : 138.58	98.0 52.57 : 138.58
PFNA (Raw)	TM440	94.75 52.94 : 139.56	95.53 52.94 : 139.56	101.09 52.94 : 139.56
PFNS (Raw)	TM440	98.65 54.38 : 143.37	92.48 54.38 : 143.37	94.28 54.38 : 143.37
PFOA (Raw)	TM440	98.22 53.80 : 141.85	92.72 53.80 : 141.85	102.12 53.80 : 141.85
PFODA (Raw)	TM440	112.41 56.03 : 147.72	94.4 56.03 : 147.72	122.16 56.03 : 147.72
PFOSA (Raw)	TM440	93.74 53.10 : 140.00	87.81 53.10 : 140.00	101.28 53.10 : 140.00
PFFPA (Raw)	TM440	95.78 53.89 : 142.06	96.66 53.89 : 142.06	100.81 53.89 : 142.06
PFPeS (Raw)	TM440	92.19 54.30 : 143.15	84.33 54.30 : 143.15	109.49 54.30 : 143.15
PFTeA (Raw)	TM440	96.6 53.06 : 139.89	98.56 53.06 : 139.89	107.89 53.06 : 139.89
PFTrDA (Raw)	TM440	98.45 51.70 : 136.30	99.36 51.70 : 136.30	109.56 51.70 : 136.30
PFTrDS (Raw)	TM440	99.79 56.24 : 148.26	96.21 56.24 : 148.26	101.59 56.24 : 148.26
PFUnA (Raw)	TM440	97.94 53.35 : 140.65	93.73 53.35 : 140.65	108.55 53.35 : 140.65
PFUnDS (Raw)	TM440	105.12 53.60 : 141.30	94.57 53.60 : 141.30	107.95 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3281
11CI-PF3OUdS (763051-92-9)	TM434	113.09 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	98.07 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	113.6 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	89.65 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	110.67 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	117.58 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	92.3 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	110.88 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	109.23 71.98 : 136.03
ADONA (919005-14-4)	TM434	108.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	98.42 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	124.58 67.92 : 135.38
FBSA (30334-69-1)	TM434	100.03 58.08 : 137.20
FHxSA (41997-13-1)	TM434	104.4 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	107.55 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	114.09 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	103.35 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	101.44 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	128.81 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	143.83 59.26 : 122.86
NFDHA (151772-58-6)	TM434	103.31 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	119.46 62.71 : 118.96
PFBA (375-22-4)	TM434	102.04 67.84 : 130.39
PFBS (375-73-5)	TM434	108.69 90.25 : 126.25
PFDA (335-76-2)	TM434	109.49 68.94 : 132.99
PFDaA (307-55-1)	TM434	106.6 66.19 : 135.04
PFDoS (79780-39-5)	TM434	109.06 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3281
PFDS (335-77-3)	TM434	114.03 64.84 : 138.49
PFEESA (113507-82-7)	TM434	106.16 67.24 : 129.19
PFHpA (375-85-9)	TM434	111.05 72.89 : 141.36
PFHpS (375-92-8)	TM434	110.89 72.19 : 155.36
PFHxA (307-24-4)	TM434	103.23 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	110.66 89.96 : 128.14
PFHxS (355-46-4)	TM434	111.4 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	105.75 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	92.03 80.40 : 136.73
PFNA (375-95-1)	TM434	101.11 68.61 : 128.99
PFNS (68259-12-1)	TM434	140.1 70.70 : 130.93
PFOA (335-67-1)	TM434	109.34 74.09 : 143.61
PFODA (16517-11-6)	TM434	112.6 68.70 : 175.88
PFOSA (754-91-6)	TM434	118.89 67.59 : 130.51
PFPA (2706-90-3)	TM434	115.93 74.20 : 140.58
PFPeS (2706-91-4)	TM434	113.88 76.19 : 137.91
PFTeA (376-06-7)	TM434	115.94 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	120.96 71.98 : 130.25
PFUnA (2058-94-8)	TM434	97.49 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	118.23 85.84 : 139.76

pH

Component	Method Code	QC 3206	QC 3267	QC 3275	QC 3204
pH	TM133	102.32 95.29 : 105.24	102.87 95.29 : 105.24	102.89 95.29 : 105.24	102.34 95.29 : 105.24

Total Organic Carbon



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Total Organic Carbon

Component	Method Code	QC 3208	QC 3264	QC 3252	QC 3215	QC 3221	QC 3234
Total Organic Carbon	TM132	94.82 93.61 : 106.00	96.66 93.61 : 106.00	97.31 93.61 : 106.00	96.6 93.61 : 106.00	97.26 93.61 : 106.00	96.18 93.61 : 106.00

Component	Method Code	QC 3245	QC 3247
Total Organic Carbon	TM132	96.77 93.61 : 106.00	94.58 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 30 October 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251016-65
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 781754
Order Number: UK-70100310-403

This report has been revised and directly supersedes 781595 in its entirety.

We received 26 samples on Wednesday October 15, 2025 and 16 of these samples were scheduled for analysis which was completed on Wednesday October 29, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32301183	POUL-SP510-A	ES	0.00 - 0.10	13/10/2025
32301210	POUL-SP510-A	ES	0.10 - 0.20	13/10/2025
32301231	POUL-SP510-B	ES	0.10 - 0.20	13/10/2025
32301234	POUL-SP510-C	WS	0.00 - 0.10	13/10/2025
32301239	POUL-SP510-C	ES	0.00 - 0.10	13/10/2025
32301243	POUL-SP510-D	ES	0.00 - 0.10	13/10/2025
32301245	POUL-SP510-D	ES	0.10 - 0.17	13/10/2025
32301247	POUL-SP510-E-S1	ES	0.10 - 0.20	13/10/2025
32301249	POUL-SP510-E-S1	ES	0.20 - 0.30	13/10/2025
32301185	POUL-SP510-E-S1	ESA1	0.40 - 0.50	13/10/2025
32301188	POUL-SP510-E-S1	ESA2	0.40 - 0.50	13/10/2025
32301190	POUL-SP510-E-S2	ESA1	0.40 - 0.50	13/10/2025
32301193	POUL-SP510-E-S2	ESA2	0.40 - 0.50	13/10/2025
32301195	POUL-SP510-F	ES	0.10 - 0.20	13/10/2025
32301197	POUL-SP510-F	W	0.10 - 0.20	13/10/2025
32301202	POUL-SP510-F	ES	0.30 - 0.40	13/10/2025
32301204	POUL-SP510-F	ES	0.50 - 0.60	13/10/2025
32301206	POUL-SP510-G	ES	0.00 - 0.10	13/10/2025
32301208	POUL-SP510-G	ES	0.30 - 0.40	13/10/2025
32301214	POUL-SP510-G	ES	0.40 - 0.50	13/10/2025
32301216	POUL-SP510-H	ES	0.00 - 0.10	13/10/2025
32301219	POUL-SP510-I	ES	0.00 - 0.10	13/10/2025
32301221	POUL-SP510-J	ES	0.00 - 0.12	13/10/2025
32301223	POUL-SP510-K	ES	0.00 - 0.11	13/10/2025
32301226	POUL-SP510-L	ES	0.00 - 0.13	13/10/2025
32301228	POUL-SP510-M	ES	0.00 - 0.13	13/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



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Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32301214	POUL-SP510-G	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32301208	POUL-SP510-G	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32301206	POUL-SP510-G	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32301204	POUL-SP510-F	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32301202	POUL-SP510-F	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32301197	POUL-SP510-F	W	0.10 - 0.20	50ml digtube (ALE001)	PW						
	32301195	POUL-SP510-F	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32301193	POUL-SP510-E-S2	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32301190	POUL-SP510-E-S2	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32301188	POUL-SP510-E-S1	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32301185	POUL-SP510-E-S1	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32301249	POUL-SP510-E-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32301247	POUL-SP510-E-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32301239	POUL-SP510-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32301234	POUL-SP510-C	WS	0.00 - 0.10	50ml digtube (ALE001)	PW						
	32301231	POUL-SP510-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS in soils	All	NDPs: 0 Tests: 14										
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2										
pH	All	NDPs: 0 Tests: 14										
Sample description	All	NDPs: 0 Tests: 14										
Total Organic Carbon	All	NDPs: 1 Tests: 13										



CERTIFICATE OF ANALYSIS

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SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32301231	POUL-SP510-B	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Tile/Insulation Board
32301239	POUL-SP510-C	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Crushed Brick
32301185	POUL-SP510-E-S1	0.40 - 0.50	Black	Sand	Stones	Concrete/Aggregate
32301188	POUL-SP510-E-S1	0.40 - 0.50	Black	Sand	Stones	Concrete/Aggregate
32301247	POUL-SP510-E-S1	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32301249	POUL-SP510-E-S1	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32301190	POUL-SP510-E-S2	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32301193	POUL-SP510-E-S2	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32301195	POUL-SP510-F	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Crushed Brick
32301202	POUL-SP510-F	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Crushed Brick
32301204	POUL-SP510-F	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Crushed Brick
32301206	POUL-SP510-G	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Crushed Brick
32301208	POUL-SP510-G	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32301214	POUL-SP510-G	0.40 - 0.50	Black	Sand	Stones	N/A

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Results Legend			Customer Sample Ref.	POUL-SP510-B	POUL-SP510-C	POUL-SP510-C	POUL-SP510-E-S1	POUL-SP510-E-S1	POUL-SP510-E-S1
#	ISO17025 accredited.			0.10 - 0.20	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.			Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.004					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434		<0.002					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.01					
PFFPA (2706-90-3)	<0.001 µg/l	TM434		<0.002					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.002					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.002					
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.006					
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.002					
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.002					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.004					
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.002					
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.002					
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.002					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.01					
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.002					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.002					
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.002					
PFOA (335-67-1)	<0.00065 µg/l	TM434		<0.0013					
PFHxS (355-46-4)	<0.001 µg/l	TM434		<0.002					
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.002					
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.002					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.004					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.01					
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.004					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.004	@				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.01					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		<0.0013					
Branched PFOS	<0.00065 µg/l	TM434		<0.0013					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.004	@				
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.004					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.002					
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.002					
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.002					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Results Legend			Customer Sample Ref.		POUL-SP510-B	POUL-SP510-C	POUL-SP510-C	POUL-SP510-E-S1	POUL-SP510-E-S1	POUL-SP510-E-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
diss.filt	Dissolved / filtered sample.				15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025
tot.unfilt	Total / unfiltered sample.				251016-65	251016-65	251016-65	251016-65	251016-65	251016-65
* Subcontracted - refer to subcontractor report for accreditation status.					32301231	32301234	32301239	32301247	32301249	32301185
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.004				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.004				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.006				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.004				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.004				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.002				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.004				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.004				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.002				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.02				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.002				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.02				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.002				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.002				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.02				
Total PFOS	<0.00065 µg/l	TM434				<0.0013				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.18				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.002				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.002				
Moisture Content Ratio (% of as received sample)	%	PM024			16		16	23	18	16
Soil Organic Matter (SOM)	<0.35 %	TM132			6.83		9.5	10.1	15.6	16.8
pH	1 pH Units	TM133			8.23		8.25	7.65	7.82	8.33
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	0.712	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	1.79	0.828	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	POUL-SP510-B	POUL-SP510-C	POUL-SP510-C	POUL-SP510-E-S1	POUL-SP510-E-S1	POUL-SP510-E-S1
#	ISO17025 accredited.			0.10 - 0.20	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.			Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.			15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025
*	Subcontracted - refer to subcontractor report for accreditation status.			251016-65	251016-65	251016-65	251016-65	251016-65	251016-65
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32301231	32301234	32301239	32301247	32301249	32301185
***	6:2 FTAB (see appendix)			ES	WS	ES	ES	ES	ESA1
1-4**	@Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	14.7		6.57	8.54	11.1	11.6	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10		<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9		<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4		<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	1.14		<0.5	1.9	1.45	0.964	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.67		<0.6	1.47	1.25	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4		<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	1.5		1.1	0.963	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440	0.789		<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	0.865		0.729	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7		<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Results Legend			Customer Sample Ref.	POUL-SP510-E-S1	POUL-SP510-E-S2	POUL-SP510-E-S2	POUL-SP510-F	POUL-SP510-F	POUL-SP510-F
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6.2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Depth (m)	0.40 - 0.50								
Sample Type	Soil/Solid (S)								
Date Sampled	13/10/2025								
Sample Time									
Date Received	15/10/2025								
SDG Ref	251016-65								
Lab Sample No.(s)	32301188								
AGS Reference	ESA2								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002	
PFMOPrA (377-73-1)	<0.001 µg/l	TM434						<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065	
Branched PFOS	<0.00065 µg/l	TM434						<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002	
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Results Legend			Customer Sample Ref.		POUL-SP510-E-S1	POUL-SP510-E-S2	POUL-SP510-E-S2	POUL-SP510-F	POUL-SP510-F	POUL-SP510-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025
diss.filt	Dissolved / filtered sample.				15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025
tot.unfilt	Total / unfiltered sample.				251016-65	251016-65	251016-65	251016-65	251016-65	251016-65
* Subcontracted - refer to subcontractor report for accreditation status.					32301188	32301190	32301193	32301195	32301197	32301202
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ESA1	ESA2	ES	W	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024			14	20	19	23		19
Soil Organic Matter (SOM)	<0.35 %	TM132			13.9	8.9	5.38	18.8		
pH	1 pH Units	TM133			8.43	7.74	7.47	7.56		7.61
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.76		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.39		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Results Legend			Customer Sample Ref.	POUL-SP510-E-S1	POUL-SP510-E-S2	POUL-SP510-E-S2	POUL-SP510-F	POUL-SP510-F	POUL-SP510-F	
#	ISO17025 accredited.									
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
***	6:2 FTAB (see appendix)									
1-4**@	Sample deviation (see appendix)									
		Depth (m)	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40		
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)		
		Date Sampled	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025	13/10/2025		
		Sample Time								
		Date Received	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025		
		SDG Ref	251016-65	251016-65	251016-65	251016-65	251016-65	251016-65		
		Lab Sample No.(s)	32301188	32301190	32301193	32301195	32301197	32301202		
		AGS Reference	ESA2	ESA1	ESA2	ES	W	ES		
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5		<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440	12.8	12.2	15.5	71.5		68.1		
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10		<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	1.42		0.679		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9		<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4		<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	0.811	3.2		1.15		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	2.53		<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5		<2.5		
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4	<1.4	<1.4		<1.4		
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	1.61		<0.5		
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8		<0.8		
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	0.965		<0.6		
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6		
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	0.84		<0.6		
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7	<0.7	<0.7		<0.7		
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5		



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Results Legend			Customer Sample Ref.		POUL-SP510-F	POUL-SP510-G	POUL-SP510-G	POUL-SP510-G		
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 13/10/2025 15/10/2025 251016-65 32301204 ES	0.00 - 0.10 Soil/Solid (S) 13/10/2025 15/10/2025 251016-65 32301206 ES	0.30 - 0.40 Soil/Solid (S) 13/10/2025 15/10/2025 251016-65 32301208 ES	0.40 - 0.50 Soil/Solid (S) 13/10/2025 15/10/2025 251016-65 32301214 ES		
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			21	21	19	15		
Soil Organic Matter (SOM)	<0.35 %	TM132			13.5	6.26	17.2	16.4		
pH	1 pH Units	TM133			7.67	7.41	7.73	8.39		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			0.683	0.936	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			119	11	18.5	22.6		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			0.823	0.701	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			1.37	1.25	0.997	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			1.21	1.28	0.774	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		

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Notification of NDPs (No determination possible)

Date Received : 16/10/2025 11:37:18

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
32301202	POUL-SP510-F	0.30 - 0.40	Total Organic Carbon	Unable to confirm result



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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32301231	32301234	32301239	32301185	32301188	32301247	32301249	32301190	32301193	32301195
	POUL-SP510-B	POUL-SP510-C	POUL-SP510-C	POUL-SP510-E-S1	POUL-SP510-E-S1	POUL-SP510-E-S1	POUL-SP510-E-S1	POUL-SP510-E-S2	POUL-SP510-E-S2	POUL-SP510-F
AGS Ref.	ES	WS	ES	ESA1	ESA2	ES	ES	ESA1	ESA2	ES
Depth	0.10 - 0.20	0.00 - 0.10	0.00 - 0.10	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20
Type	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	20-Oct-2025		20-Oct-2025	23-Oct-2025	20-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	23-Oct-2025	20-Oct-2025
PFAS Liquids (Full Suite)		22-Oct-2025								
pH	20-Oct-2025		20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025
Sample description	17-Oct-2025		17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025
Total Organic Carbon	29-Oct-2025		24-Oct-2025	29-Oct-2025	24-Oct-2025	24-Oct-2025	24-Oct-2025	24-Oct-2025	24-Oct-2025	28-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32301197	32301202	32301204	32301206	32301208	32301214
	POUL-SP510-F	POUL-SP510-F	POUL-SP510-F	POUL-SP510-G	POUL-SP510-G	POUL-SP510-G
AGS Ref.	W	ES	ES	ES	ES	ES
Depth	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
Type	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		21-Oct-2025	21-Oct-2025	20-Oct-2025	23-Oct-2025	23-Oct-2025
PFAS Liquids (Full Suite)	23-Oct-2025					
pH		20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025	20-Oct-2025
Sample description		17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025	17-Oct-2025
Total Organic Carbon			28-Oct-2025	29-Oct-2025	24-Oct-2025	24-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3289	QC 3284
10:2 FTS (Raw)	TM440	82.61 53.10 : 140.00	85.91 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	85.53 53.56 : 141.19	89.99 53.56 : 141.19
3:3 FTCA (Raw)	TM440	86.25 50.54 : 133.25	88.75 50.54 : 133.25
4:2 FTS (Raw)	TM440	87.44 56.34 : 145.91	93.21 56.34 : 145.91
5:3 FTCA (Raw)	TM440	84.65 52.66 : 130.08	88.18 52.66 : 130.08
6:2 FTAB (Raw)	TM440	36.34 38.50 : 101.50	36.97 38.50 : 101.50
6:2 FTS (Raw)	TM440	78.92 54.79 : 144.46	84.74 54.79 : 144.46
7:3 FTCA (Raw)	TM440	83.93 48.60 : 128.14	91.15 48.60 : 128.14
8:2 diPAP (Raw)	TM440	98.28 56.03 : 147.72	97.11 56.03 : 147.72
8:2 FTS (Raw)	TM440	84.03 55.74 : 146.96	93.87 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	90.88 54.59 : 143.91	95.05 54.59 : 143.91
ADONA (Raw)	TM440	83.87 54.01 : 132.33	92.86 54.01 : 132.33
Branched PFOS (Raw)	TM440	89.53 54.09 : 142.61	97.1 54.09 : 142.61
EtFOSAA (Raw)	TM440	101.66 52.48 : 138.36	110.1 52.48 : 138.36
EtFOSE (Raw)	TM440	89.54 57.05 : 145.29	90.99 57.05 : 145.29
FBFA (Raw)	TM440	81.8 49.51 : 125.13	83.73 49.51 : 125.13
FHxSA (Raw)	TM440	86.88 50.38 : 132.82	91.06 50.38 : 132.82
HFPO-DA (Raw)	TM440	95.27 53.47 : 140.98	101.71 53.47 : 140.98
HFPO-TA (Raw)	TM440	100.58 54.77 : 144.39	114.11 54.77 : 144.39
L-PFOS (Raw)	TM440	99.76 54.09 : 142.61	105.25 54.09 : 142.61
MeFOSAA (Raw)	TM440	90.96 53.02 : 139.78	93.72 53.02 : 139.78
MeFOSE (Raw)	TM440	79.5 54.99 : 144.97	82.16 54.99 : 144.97
N-EtFOSA (Raw)	TM440	79.73 59.56 : 132.93	86.56 59.56 : 132.93
NFDHA (Raw)	TM440	88.42 57.35 : 151.20	88.92 57.35 : 151.20
N-MeFOSA (Raw)	TM440	97.12 59.19 : 133.01	98.06 59.19 : 133.01
PFBA (Raw)	TM440	88.03 52.69 : 138.91	89.62 52.69 : 138.91



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PFAS in soils

		QC 3289	QC 3284
PFBS (Raw)	TM440	82.8 53.31 : 140.54	85.6 53.31 : 140.54
PFDA (Raw)	TM440	87.82 53.39 : 140.76	88.29 53.39 : 140.76
PFDoA (Raw)	TM440	91.77 52.85 : 139.34	93.84 52.85 : 139.34
PFDoS (Raw)	TM440	91.94 55.29 : 145.76	94.04 55.29 : 145.76
PFDS (Raw)	TM440	92.02 52.94 : 139.56	97.07 52.94 : 139.56
PFecHS (Raw)	TM440	93.13 50.75 : 133.80	90.34 50.75 : 133.80
PFEESA (Raw)	TM440	83.74 50.87 : 134.12	87.27 50.87 : 134.12
PFHpA (Raw)	TM440	84.0 52.61 : 138.69	92.12 52.61 : 138.69
PFHpS (Raw)	TM440	90.58 55.29 : 145.76	98.75 55.29 : 145.76
PFHxA (Raw)	TM440	88.63 54.05 : 142.50	89.89 54.05 : 142.50
PFHxDA (Raw)	TM440	99.9 52.03 : 137.17	98.96 52.03 : 137.17
PFHxS (Raw)	TM440	92.66 53.56 : 141.19	89.01 53.56 : 141.19
PFMOBA (Raw)	TM440	95.94 52.73 : 139.02	91.36 52.73 : 139.02
PFMOPrA (Raw)	TM440	81.01 52.57 : 138.58	82.92 52.57 : 138.58
PFNA (Raw)	TM440	92.18 52.94 : 139.56	95.53 52.94 : 139.56
PFNS (Raw)	TM440	88.81 54.38 : 143.37	92.48 54.38 : 143.37
PFOA (Raw)	TM440	91.26 53.80 : 141.85	92.72 53.80 : 141.85
PFODA (Raw)	TM440	92.65 56.03 : 147.72	94.4 56.03 : 147.72
PFOSA (Raw)	TM440	85.25 53.10 : 140.00	87.81 53.10 : 140.00
PFPa (Raw)	TM440	86.87 53.89 : 142.06	96.66 53.89 : 142.06
PFPeS (Raw)	TM440	92.78 54.30 : 143.15	84.33 54.30 : 143.15
PFTeA (Raw)	TM440	91.01 53.06 : 139.89	98.56 53.06 : 139.89
PFTTrDA (Raw)	TM440	89.7 51.70 : 136.30	99.36 51.70 : 136.30
PFTTrDS (Raw)	TM440	86.65 56.24 : 148.26	96.21 56.24 : 148.26
PFUnA (Raw)	TM440	90.76 53.35 : 140.65	93.73 53.35 : 140.65
PFUnDS (Raw)	TM440	87.11 53.60 : 141.30	94.57 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3218	QC 3281
11CI-PF3OUdS (763051-92-9)	TM434	103.03 71.39 : 130.11	113.09 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	147.9 53.44 : 140.89	98.07 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	117.1 80.71 : 134.26	113.6 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	100.04 64.44 : 139.44	89.65 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	137.0 58.31 : 142.44	110.67 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	110.7 73.93 : 134.90	117.58 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	117.86 61.23 : 140.88	92.3 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	112.94 82.68 : 128.35	110.88 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	119.33 69.20 : 147.13	109.23 71.98 : 136.03
ADONA (919005-14-4)	TM434	116.07 73.23 : 135.10	108.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	115.31 72.95 : 133.93	98.42 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	122.37 67.47 : 136.89	124.58 67.92 : 135.38
FBSA (30334-69-1)	TM434	114.48 63.70 : 143.28	100.03 58.08 : 137.20
FHxSA (41997-13-1)	TM434	111.93 63.00 : 139.73	104.4 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	112.0 67.58 : 142.95	107.55 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	122.72 69.04 : 147.42	114.09 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	117.22 70.63 : 141.88	103.35 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	118.83 75.64 : 130.69	101.44 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	120.98 72.41 : 131.62	128.81 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	125.18 57.83 : 132.08	143.83 59.26 : 122.86
NFDHA (151772-58-6)	TM434	110.72 57.60 : 134.40	103.31 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	128.56 61.69 : 135.49	119.46 62.71 : 118.96
PFBA (375-22-4)	TM434	119.69 74.68 : 133.63	102.04 67.84 : 130.39
PFBS (375-73-5)	TM434	118.31 74.09 : 133.79	108.69 90.25 : 126.25
PFDA (335-76-2)	TM434	121.25 72.39 : 135.76	109.49 68.94 : 132.99
PFDaA (307-55-1)	TM434	120.59 58.06 : 148.21	106.6 66.19 : 135.04
PFDoS (79780-39-5)	TM434	95.05 74.76 : 130.94	109.06 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3218	QC 3281
PFDS (335-77-3)	TM434	104.03 58.61 : 140.44	114.03 64.84 : 138.49
PFEESA (113507-82-7)	TM434	115.81 62.25 : 138.08	106.16 67.24 : 129.19
PFHpA (375-85-9)	TM434	117.25 75.71 : 136.46	111.05 72.89 : 141.36
PFHpS (375-92-8)	TM434	134.78 76.13 : 132.38	110.89 72.19 : 155.36
PFHxA (307-24-4)	TM434	117.1 78.16 : 133.89	103.23 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	115.98 71.24 : 136.49	110.66 89.96 : 128.14
PFHxS (355-46-4)	TM434	106.77 73.25 : 135.20	111.4 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	110.96 76.41 : 130.26	105.75 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	110.21 65.74 : 128.74	92.03 80.40 : 136.73
PFNA (375-95-1)	TM434	118.35 75.01 : 133.06	101.11 68.61 : 128.99
PFNS (68259-12-1)	TM434	111.42 74.74 : 129.26	140.1 70.70 : 130.93
PFOA (335-67-1)	TM434	115.71 74.76 : 136.11	109.34 74.09 : 143.61
PFODA (16517-11-6)	TM434	112.63 53.58 : 141.25	112.6 68.70 : 175.88
PFOSA (754-91-6)	TM434	116.02 76.54 : 135.04	118.89 67.59 : 130.51
PFPA (2706-90-3)	TM434	124.03 77.89 : 134.66	115.93 74.20 : 140.58
PFPeS (2706-91-4)	TM434	119.45 69.49 : 132.71	113.88 76.19 : 137.91
PFTeA (376-06-7)	TM434	118.79 61.66 : 143.71	115.94 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	116.39 67.04 : 136.04	120.96 71.98 : 130.25
PFUnA (2058-94-8)	TM434	114.92 70.21 : 138.54	97.49 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	95.12 71.45 : 127.25	118.23 85.84 : 139.76

pH

Component	Method Code	QC 3202
pH	TM133	102.5 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

SDG: 251016-65
Client Ref.: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Total Organic Carbon

Component	Method Code	QC 3215	QC 3211	QC 3247
Total Organic Carbon	TM132	96.6 93.61 : 106.00	95.74 93.61 : 106.00	94.58 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251016-65
Client Ref: UK-70100310

Report Number: 781754
Location: Thornton Phase 3

Superseded Report: 781595

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
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Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	29 October 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251018-46
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	781597
Order Number:	UK-70100310-403

We received 19 samples on Friday October 17, 2025 and 19 of these samples were scheduled for analysis which was completed on Wednesday October 29, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32311290	GR04-SP411-A-S1	ES	0.10 - 0.20	15/10/2025
32311312	GR04-SP411-A-S1	ES	0.30 - 0.40	15/10/2025
32311314	GR04-SP411-A-S1	ESA1	0.50 - 0.60	15/10/2025
32311316	GR04-SP411-A-S1	ESA2	0.50 - 0.60	15/10/2025
32311318	GR04-SP411-A-S2	ESA1	0.50 - 0.60	15/10/2025
32311320	GR04-SP411-A-S2	ESA2	0.50 - 0.60	15/10/2025
32311322	GR04-SP411-B	ES	0.00 - 0.10	15/10/2025
32311324	GR04-SP411-B	WT	0.00 - 0.10	15/10/2025
32311328	GR04-SP411-B	ES	0.30 - 0.40	15/10/2025
32311292	GR04-SP411-B	ESALS	0.40 - 0.50	15/10/2025
32311294	GR04-SP411-C	ES	0.10 - 0.20	15/10/2025
32311296	GR04-SP411-C	ES	0.20 - 0.30	15/10/2025
32311298	GR04-SP411-C	ES	0.50 - 0.60	15/10/2025
32311300	GR04-SP411-D	ES	0.00 - 0.10	15/10/2025
32311302	GR04-SP411-D	ES	0.20 - 0.30	15/10/2025
32311304	GR04-SP411-D	ES	0.40 - 0.50	15/10/2025
32311306	GR04-SP411-E	ES	0.10 - 0.20	15/10/2025
32311308	GR04-SP411-E	ES	0.30 - 0.40	15/10/2025
32311310	GR04-SP411-E	ES	0.50 - 0.60	15/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32311310	GR04-SP411-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32311308	GR04-SP411-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32311306	GR04-SP411-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32311304	GR04-SP411-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32311302	GR04-SP411-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32311300	GR04-SP411-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32311298	GR04-SP411-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32311296	GR04-SP411-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32311294	GR04-SP411-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32311292	GR04-SP411-B	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32311328	GR04-SP411-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32311324	GR04-SP411-B	WT	0.00 - 0.10	50ml digtube (ALE001)	PW						
	32311322	GR04-SP411-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32311320	GR04-SP411-A-S2	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32311318	GR04-SP411-A-S2	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32311316	GR04-SP411-A-S1	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32311314	GR04-SP411-A-S1	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32311312	GR04-SP411-A-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32311290	GR04-SP411-A-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 1										
pH	All	NDPs: 0 Tests: 18										
Sample description	All	NDPs: 0 Tests: 18										
Total Organic Carbon	All	NDPs: 0 Tests: 18										



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32311290	GR04-SP411-A-S1	0.10 - 0.20	Dark Brown	Silt Loam	Stones	Vegetation
32311312	GR04-SP411-A-S1	0.30 - 0.40	Dark Brown	Clay Loam	Vegetation	None
32311314	GR04-SP411-A-S1	0.50 - 0.60	Dark Brown	Silt Loam	Stones	Vegetation
32311316	GR04-SP411-A-S1	0.50 - 0.60	Dark Brown	Clay Loam	None	None
32311318	GR04-SP411-A-S2	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None
32311320	GR04-SP411-A-S2	0.50 - 0.60	Dark Brown	Silt Loam	Stones	Vegetation
32311292	GR04-SP411-B	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None
32311322	GR04-SP411-B	0.00 - 0.10	Dark Brown	Clay Loam	Vegetation	None
32311328	GR04-SP411-B	0.30 - 0.40	Dark Brown	Clay Loam	Vegetation	None
32311294	GR04-SP411-C	0.10 - 0.20	Dark Brown	Clay Loam	Vegetation	None
32311296	GR04-SP411-C	0.20 - 0.30	Dark Brown	Clay Loam	Vegetation	None
32311298	GR04-SP411-C	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None
32311300	GR04-SP411-D	0.00 - 0.10	Dark Brown	Clay Loam	Vegetation	None
32311302	GR04-SP411-D	0.20 - 0.30	Dark Brown	Clay Loam	Vegetation	None
32311304	GR04-SP411-D	0.40 - 0.50	Dark Brown	Silt Loam	Stones	Vegetation
32311306	GR04-SP411-E	0.10 - 0.20	Dark Brown	Clay Loam	Vegetation	None
32311308	GR04-SP411-E	0.30 - 0.40	Dark Brown	Silt Loam	Stones	Vegetation
32311310	GR04-SP411-E	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S2	GR04-SP411-A-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-46	251018-46	251018-46	251018-46	251018-46	251018-46
* Subcontracted - refer to subcontractor report for accreditation status.					32311290	32311312	32311314	32311316	32311318	32311320
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESA1	ESA2	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			28	19	19	19	21	26
Soil Organic Matter (SOM)	<0.35 %	TM132			4.4	1.61	1.69	1.68	2.48	2.55
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.53	6.63	6.88	6.94	6.78	6.85
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			8.81	8.84	7.43	9.34	10.5	5.09
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-C	GR04-SP411-C
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10 Soil/Solid (S) 15/10/2025	0.00 - 0.10 Process Water (PR) 15/10/2025	0.30 - 0.40 Soil/Solid (S) 15/10/2025	0.40 - 0.50 Soil/Solid (S) 15/10/2025	0.10 - 0.20 Soil/Solid (S) 15/10/2025	0.20 - 0.30 Soil/Solid (S) 15/10/2025
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)			251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	
1-4**@ Sample deviation (see appendix)			32311322 ES	32311324 WT	32311328 ES	32311292 ESALS	32311294 ES	32311296 ES	
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434		<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434		0.000849					
PFHxS (355-46-4)	<0.001 µg/l	TM434		0.0025					
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.002					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		0.00307					
Branched PFOS	<0.00065 µg/l	TM434		0.00525					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.002					
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-C	GR04-SP411-C
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 15/10/2025	0.00 - 0.10 Process Water (PR) 15/10/2025	0.30 - 0.40 Soil/Solid (S) 15/10/2025	0.40 - 0.50 Soil/Solid (S) 15/10/2025	0.10 - 0.20 Soil/Solid (S) 15/10/2025	0.20 - 0.30 Soil/Solid (S) 15/10/2025	
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434		<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.002					
PFTrDA (72629-94-8)	<0.003 µg/l	TM434		<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.01					
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434		<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.001					
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434		<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		0.015					
Total PFOS	<0.00065 µg/l	TM434		0.00832					
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.001					
PFTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024	27		21	26	24	25	
Soil Organic Matter (SOM)	<0.35 %	TM132	3.14		1.86	6	2.59	3.02	
pH	1 pH Units	TM133	6.03		6.36	6.62	6.51	6.45	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-C	GR04-SP411-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 15/10/2025	0.00 - 0.10 Process Water (PR) 15/10/2025	0.30 - 0.40 Soil/Solid (S) 15/10/2025	0.40 - 0.50 Soil/Solid (S) 15/10/2025	0.10 - 0.20 Soil/Solid (S) 15/10/2025	0.20 - 0.30 Soil/Solid (S) 15/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	0.757	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		4.7		5.38	9.61	9.97	8.79
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP411-C	GR04-SP411-D	GR04-SP411-D	GR04-SP411-D	GR04-SP411-E	GR04-SP411-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-46	251018-46	251018-46	251018-46	251018-46	251018-46
* Subcontracted - refer to subcontractor report for accreditation status.					32311298	32311300	32311302	32311304	32311306	32311308
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			21	31	24	23	26	25
Soil Organic Matter (SOM)	<0.35 %	TM132			1.68	4.64	4.26	2.07	3.41	3.22
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.72	6.11	6.53	6.83	6.39	7.41
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			13.1	5.94	5.69	3.25	30.1	28.4
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46
Client Ref.: UK-70100310

Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref.	GR04-SP411-E				
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Soil/Solid (S) 15/10/2025 . 17/10/2025 251018-46 32311310 ES				
Component	LOD/Units	Method					
Moisture Content Ratio (% of as received sample)	%	PM024	25				
Soil Organic Matter (SOM)	<0.35 %	TM132	2.43	#			
pH	1 pH Units	TM133	7.91	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5				
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5				
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440	15.9				
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5				
Branched PFOS	<0.6 µg/kg	TM440	<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-46 Report Number: 781597 Superseded Report:
Client Ref.: UK-70100310 Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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SDG: 251018-46
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Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32311290	32311312	32311314	32311316	32311318	32311320	32311292	32311322	32311324	32311328
	GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S2	GR04-SP411-A-S2	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B
	ES	ES	ESA1	ESA2	ESA1	ESA2	ESALS	ES	WT	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40
AGS Ref.										
Depth										
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	27-Oct-2025	29-Oct-2025	27-Oct-2025	29-Oct-2025	29-Oct-2025	27-Oct-2025	27-Oct-2025	29-Oct-2025		29-Oct-2025
PFAS Liquids (Full Suite)									24-Oct-2025	
pH	22-Oct-2025	24-Oct-2025	22-Oct-2025	24-Oct-2025	26-Oct-2025	22-Oct-2025	24-Oct-2025	26-Oct-2025		24-Oct-2025
Sample description	21-Oct-2025	22-Oct-2025	21-Oct-2025	22-Oct-2025	24-Oct-2025	21-Oct-2025	22-Oct-2025	24-Oct-2025		22-Oct-2025
Total Organic Carbon	29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	29-Oct-2025	29-Oct-2025	28-Oct-2025		27-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32311294	32311296	32311298	32311300	32311302	32311304	32311306	32311308	32311310
	GR04-SP411-C	GR04-SP411-C	GR04-SP411-C	GR04-SP411-D	GR04-SP411-D	GR04-SP411-D	GR04-SP411-E	GR04-SP411-E	GR04-SP411-E
	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
AGS Ref.									
Depth									
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	27-Oct-2025	29-Oct-2025	27-Oct-2025	29-Oct-2025
pH	26-Oct-2025	26-Oct-2025	24-Oct-2025	24-Oct-2025	26-Oct-2025	22-Oct-2025	24-Oct-2025	22-Oct-2025	26-Oct-2025
Sample description	24-Oct-2025	24-Oct-2025	22-Oct-2025	22-Oct-2025	24-Oct-2025	21-Oct-2025	22-Oct-2025	21-Oct-2025	24-Oct-2025
Total Organic Carbon	28-Oct-2025	29-Oct-2025	29-Oct-2025	27-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3224	QC 3274	QC 3234	QC 3254	QC 3208
10:2 FTS (Raw)	TM440	103.37 53.10 : 140.00	92.09 53.10 : 140.00	125.07 53.10 : 140.00	116.75 53.10 : 140.00	124.52 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	109.09 53.56 : 141.19	100.53 53.56 : 141.19	102.61 53.56 : 141.19	92.79 53.56 : 141.19	118.61 53.56 : 141.19
3:3 FTCA (Raw)	TM440	88.03 50.54 : 133.25	91.19 50.54 : 133.25	80.16 50.54 : 133.25	90.71 50.54 : 133.25	108.83 50.54 : 133.25
4:2 FTS (Raw)	TM440	102.1 56.34 : 145.91	94.3 56.34 : 145.91	92.72 56.34 : 145.91	117.47 56.34 : 145.91	127.83 56.34 : 145.91
5:3 FTCA (Raw)	TM440	99.04 52.66 : 130.08	93.1 52.66 : 130.08	94.64 52.66 : 130.08	97.65 52.66 : 130.08	116.95 52.66 : 130.08
6:2 FTAB (Raw)	TM440	36.93 38.50 : 101.50	36.69 38.50 : 101.50	36.71 38.50 : 101.50	36.05 38.50 : 101.50	49.16 38.50 : 101.50
6:2 FTS (Raw)	TM440	97.71 54.79 : 144.46	100.65 54.79 : 144.46	91.38 54.79 : 144.46	126.52 54.79 : 144.46	129.55 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.44 48.60 : 128.14	95.51 48.60 : 128.14	108.44 48.60 : 128.14	90.31 48.60 : 128.14	126.42 48.60 : 128.14
8:2 diPAP (Raw)	TM440	92.21 56.03 : 147.72	86.76 56.03 : 147.72	85.36 56.03 : 147.72	93.0 56.03 : 147.72	129.38 56.03 : 147.72
8:2 FTS (Raw)	TM440	93.0 55.74 : 146.96	88.77 55.74 : 146.96	79.48 55.74 : 146.96	112.62 55.74 : 146.96	132.76 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	98.86 54.59 : 143.91	95.11 54.59 : 143.91	96.85 54.59 : 143.91	89.37 54.59 : 143.91	122.27 54.59 : 143.91
ADONA (Raw)	TM440	101.59 54.01 : 132.33	86.78 54.01 : 132.33	87.82 54.01 : 132.33	101.63 54.01 : 132.33	124.15 54.01 : 132.33
Branched PFOS (Raw)	TM440	101.0 54.09 : 142.61	97.4 54.09 : 142.61	92.93 54.09 : 142.61	100.51 54.09 : 142.61	127.15 54.09 : 142.61
EtFOSAA (Raw)	TM440	102.98 52.48 : 138.36	82.84 52.48 : 138.36	87.66 52.48 : 138.36	95.47 52.48 : 138.36	126.82 52.48 : 138.36
EtFOSE (Raw)	TM440	102.53 57.05 : 145.29	96.51 57.05 : 145.29	89.29 57.05 : 145.29	113.87 57.05 : 145.29	125.82 57.05 : 145.29
FBSA (Raw)	TM440	96.9 49.51 : 125.13	67.99 49.51 : 125.13	60.11 49.51 : 125.13	92.31 49.51 : 125.13	123.86 49.51 : 125.13
FHxSA (Raw)	TM440	102.54 50.38 : 132.82	89.84 50.38 : 132.82	94.15 50.38 : 132.82	100.5 50.38 : 132.82	130.36 50.38 : 132.82
HFPO-DA (Raw)	TM440	100.56 53.47 : 140.98	88.59 53.47 : 140.98	89.38 53.47 : 140.98	111.54 53.47 : 140.98	121.45 53.47 : 140.98
HFPO-TA (Raw)	TM440	106.4 54.77 : 144.39	92.1 54.77 : 144.39	93.16 54.77 : 144.39	117.18 54.77 : 144.39	124.72 54.77 : 144.39
L-PFOS (Raw)	TM440	101.0 54.09 : 142.61	97.4 54.09 : 142.61	92.93 54.09 : 142.61	100.51 54.09 : 142.61	127.15 54.09 : 142.61
MeFOSAA (Raw)	TM440	103.54 53.02 : 139.78	94.34 53.02 : 139.78	83.7 53.02 : 139.78	102.0 53.02 : 139.78	136.1 53.02 : 139.78
MeFOSE (Raw)	TM440	101.18 54.99 : 144.97	94.56 54.99 : 144.97	86.86 54.99 : 144.97	117.03 54.99 : 144.97	131.99 54.99 : 144.97
N-EtFOSA (Raw)	TM440	103.82 59.56 : 132.93	88.09 59.56 : 132.93	88.94 59.56 : 132.93	109.98 59.56 : 132.93	119.98 59.56 : 132.93
NFDHA (Raw)	TM440	104.6 57.35 : 151.20	93.08 57.35 : 151.20	89.64 57.35 : 151.20	96.58 57.35 : 151.20	121.51 57.35 : 151.20
N-MeFOSA (Raw)	TM440	105.18 59.19 : 133.01	99.68 59.19 : 133.01	87.69 59.19 : 133.01	97.67 59.19 : 133.01	125.75 59.19 : 133.01
PFBA (Raw)	TM440	104.74 52.69 : 138.91	98.0 52.69 : 138.91	88.72 52.69 : 138.91	108.9 52.69 : 138.91	126.64 52.69 : 138.91



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PFAS in soils

		QC 3224	QC 3274	QC 3234	QC 3254	QC 3208
PFBS (Raw)	TM440	104.24 53.31 : 140.54	97.91 53.31 : 140.54	99.01 53.31 : 140.54	104.1 53.31 : 140.54	120.57 53.31 : 140.54
PFDA (Raw)	TM440	105.55 53.39 : 140.76	92.59 53.39 : 140.76	83.98 53.39 : 140.76	111.9 53.39 : 140.76	126.06 53.39 : 140.76
PFDoA (Raw)	TM440	105.71 52.85 : 139.34	89.58 52.85 : 139.34	90.57 52.85 : 139.34	114.79 52.85 : 139.34	128.55 52.85 : 139.34
PFDoS (Raw)	TM440	107.03 55.29 : 145.76	97.4 55.29 : 145.76	100.88 55.29 : 145.76	89.8 55.29 : 145.76	120.29 55.29 : 145.76
PFDS (Raw)	TM440	107.51 52.94 : 139.56	96.02 52.94 : 139.56	99.67 52.94 : 139.56	90.69 52.94 : 139.56	115.51 52.94 : 139.56
PFecHS (Raw)	TM440	96.99 50.75 : 133.80	85.51 50.75 : 133.80	78.51 50.75 : 133.80	112.45 50.75 : 133.80	123.62 50.75 : 133.80
PFEESA (Raw)	TM440	97.61 50.87 : 134.12	93.5 50.87 : 134.12	92.43 50.87 : 134.12	98.7 50.87 : 134.12	114.21 50.87 : 134.12
PFHpA (Raw)	TM440	104.61 52.61 : 138.69	98.83 52.61 : 138.69	94.01 52.61 : 138.69	109.25 52.61 : 138.69	132.4 52.61 : 138.69
PFHpS (Raw)	TM440	95.08 55.29 : 145.76	98.06 55.29 : 145.76	91.28 55.29 : 145.76	93.58 55.29 : 145.76	117.83 55.29 : 145.76
PFHxA (Raw)	TM440	105.93 54.05 : 142.50	96.09 54.05 : 142.50	89.49 54.05 : 142.50	109.31 54.05 : 142.50	134.08 54.05 : 142.50
PFHxDA (Raw)	TM440	99.12 52.03 : 137.17	89.75 52.03 : 137.17	87.42 52.03 : 137.17	99.63 52.03 : 137.17	130.25 52.03 : 137.17
PFHxS (Raw)	TM440	106.06 53.56 : 141.19	80.48 53.56 : 141.19	77.46 53.56 : 141.19	117.41 53.56 : 141.19	118.98 53.56 : 141.19
PFMOBA (Raw)	TM440	97.68 52.73 : 139.02	99.38 52.73 : 139.02	88.34 52.73 : 139.02	87.09 52.73 : 139.02	120.21 52.73 : 139.02
PFMOPra (Raw)	TM440	97.51 52.57 : 138.58	59.52 52.57 : 138.58	80.44 52.57 : 138.58	93.95 52.57 : 138.58	114.81 52.57 : 138.58
PFNA (Raw)	TM440	103.84 52.94 : 139.56	99.86 52.94 : 139.56	89.83 52.94 : 139.56	105.46 52.94 : 139.56	124.57 52.94 : 139.56
PFNS (Raw)	TM440	102.12 54.38 : 143.37	102.95 54.38 : 143.37	98.46 54.38 : 143.37	94.36 54.38 : 143.37	122.62 54.38 : 143.37
PFOA (Raw)	TM440	100.52 53.80 : 141.85	91.85 53.80 : 141.85	86.63 53.80 : 141.85	107.45 53.80 : 141.85	137.6 53.80 : 141.85
PFODA (Raw)	TM440	91.38 56.03 : 147.72	84.13 56.03 : 147.72	76.21 56.03 : 147.72	88.69 56.03 : 147.72	116.52 56.03 : 147.72
PFOSA (Raw)	TM440	93.6 53.10 : 140.00	90.82 53.10 : 140.00	85.07 53.10 : 140.00	107.38 53.10 : 140.00	120.49 53.10 : 140.00
PFFPA (Raw)	TM440	109.85 53.89 : 142.06	102.26 53.89 : 142.06	94.16 53.89 : 142.06	107.59 53.89 : 142.06	129.27 53.89 : 142.06
PFPeS (Raw)	TM440	107.41 54.30 : 143.15	87.7 54.30 : 143.15	83.02 54.30 : 143.15	121.19 54.30 : 143.15	120.73 54.30 : 143.15
PFTeA (Raw)	TM440	110.42 53.06 : 139.89	100.02 53.06 : 139.89	89.87 53.06 : 139.89	120.49 53.06 : 139.89	132.18 53.06 : 139.89
PFTrDA (Raw)	TM440	108.19 51.70 : 136.30	100.01 51.70 : 136.30	92.12 51.70 : 136.30	118.4 51.70 : 136.30	134.82 51.70 : 136.30
PFTrDS (Raw)	TM440	105.67 56.24 : 148.26	101.39 56.24 : 148.26	101.49 56.24 : 148.26	94.19 56.24 : 148.26	115.18 56.24 : 148.26
PFUnA (Raw)	TM440	107.81 53.35 : 140.65	100.4 53.35 : 140.65	95.49 53.35 : 140.65	106.05 53.35 : 140.65	133.65 53.35 : 140.65
PFUnDS (Raw)	TM440	108.41 53.60 : 141.30	100.58 53.60 : 141.30	106.99 53.60 : 141.30	94.16 53.60 : 141.30	120.74 53.60 : 141.30

PFAS Liquids (Full Suite)



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Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3288
11CI-PF3OUdS (763051-92-9)	TM434	101.14 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	109.74 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	95.7 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	88.03 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	95.36 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	93.15 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	100.59 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	96.3 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	102.18 71.98 : 136.03
ADONA (919005-14-4)	TM434	101.34 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	89.27 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	109.74 67.92 : 135.38
FBSA (30334-69-1)	TM434	101.35 58.08 : 137.20
FHxSA (41997-13-1)	TM434	101.19 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	108.02 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	110.2 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	99.74 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	93.88 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	105.82 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	103.16 59.26 : 122.86
NFDHA (151772-58-6)	TM434	94.43 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	98.3 62.71 : 118.96
PFBA (375-22-4)	TM434	95.62 67.84 : 130.39
PFBS (375-73-5)	TM434	100.5 90.25 : 126.25
PFDA (335-76-2)	TM434	93.39 68.94 : 132.99
PFDaA (307-55-1)	TM434	92.66 66.19 : 135.04
PFDoS (79780-39-5)	TM434	103.91 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3288
PFDS (335-77-3)	TM434	100.9 64.84 : 138.49
PFEESA (113507-82-7)	TM434	100.25 67.24 : 129.19
PFHpA (375-85-9)	TM434	103.73 72.89 : 141.36
PFHpS (375-92-8)	TM434	103.48 72.19 : 155.36
PFHxA (307-24-4)	TM434	95.26 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	100.34 89.96 : 128.14
PFHxS (355-46-4)	TM434	105.96 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	100.87 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	101.61 80.40 : 136.73
PFNA (375-95-1)	TM434	92.2 68.61 : 128.99
PFNS (68259-12-1)	TM434	120.26 70.70 : 130.93
PFOA (335-67-1)	TM434	105.1 74.09 : 143.61
PFODA (16517-11-6)	TM434	94.52 68.70 : 175.88
PFOSA (754-91-6)	TM434	95.3 67.59 : 130.51
PFPA (2706-90-3)	TM434	113.18 74.20 : 140.58
PFPeS (2706-91-4)	TM434	108.83 76.19 : 137.91
PFTeA (376-06-7)	TM434	99.56 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	98.49 71.98 : 130.25
PFUnA (2058-94-8)	TM434	92.54 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	100.87 85.84 : 139.76

pH

Component	Method Code	QC 3211	QC 3207	QC 3235
pH	TM133	101.36 94.00 : 105.06	101.75 95.29 : 105.24	101.49 94.00 : 105.06

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

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Report Number: 781597
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3264	QC 3230	QC 3221	QC 3234	QC 3245	QC 3247
Total Organic Carbon	TM132	96.66 93.61 : 106.00	95.13 93.61 : 106.00	97.26 93.61 : 106.00	96.18 93.61 : 106.00	96.77 93.61 : 106.00	94.58 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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Deeside
CH5 3US

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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	29 October 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251018-47
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	781596
Order Number:	UK-70100310-403

We received 32 samples on Friday October 17, 2025 and 32 of these samples were scheduled for analysis which was completed on Wednesday October 29, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32311345	GR04-SP401-A	ES	0.10 - 0.20	16/10/2025
32311374	GR04-SP401-A	ES	0.30 - 0.40	16/10/2025
32311399	GR04-SP401-A	ES	0.50 - 0.60	16/10/2025
32311349	GR04-SP410-A	ES	0.00 - 0.10	16/10/2025
32311351	GR04-SP410-A	ESALS	0.30 - 0.40	16/10/2025
32311353	GR04-SP410-A	ES	0.40 - 0.50	16/10/2025
32311355	GR04-SP441-A	ES	0.00 - 0.10	16/10/2025
32311357	GR04-SP441-A	ES	0.20 - 0.30	16/10/2025
32311359	GR04-SP441-A	ESALS	0.40 - 0.50	16/10/2025
32311407	GR04-SP401-B	ES	0.00 - 0.10	16/10/2025
32311410	GR04-SP401-B	ES	0.30 - 0.40	16/10/2025
32311412	GR04-SP401-B	ESALS	0.40 - 0.50	16/10/2025
32311414	GR04-SP401-B	WT	0.40 - 0.50	16/10/2025
32311418	GR04-SP401-C	ES	0.10 - 0.20	16/10/2025
32311420	GR04-SP401-C	ES	0.20 - 0.30	16/10/2025
32311347	GR04-SP401-C	ES	0.50 - 0.60	16/10/2025
32311361	PACK-1	WP-Egg bag	0.00 - 0.00	16/10/2025
32311366	PACK-2	WP-Bulk bag	0.00 - 0.00	16/10/2025
32311370	PACK-3	WP-Egg box	0.00 - 0.00	16/10/2025
32311376	POUL-SP512-A	ES	0.00 - 0.10	16/10/2025
32311378	POUL-SP512-A	ES	0.30 - 0.40	16/10/2025
32311380	POUL-SP512-A	ES	0.40 - 0.50	16/10/2025
32311382	POUL-SP512-A	WT	0.40 - 0.50	16/10/2025
32311386	POUL-SP512-B-S1	ES	0.10 - 0.20	16/10/2025
32311389	POUL-SP512-B-S1	ESA1	0.20 - 0.30	16/10/2025
32311391	POUL-SP512-B-S1	ESA2	0.20 - 0.30	16/10/2025
32311393	POUL-SP512-B-S1	ES	0.50 - 0.60	16/10/2025
32311395	POUL-SP512-B-S2	ESA1	0.20 - 0.30	16/10/2025
32311397	POUL-SP512-B-S2	ESA2	0.20 - 0.30	16/10/2025
32311401	POUL-SP512-C	ESALS	0.00 - 0.10	16/10/2025
32311403	POUL-SP512-C	ES	0.20 - 0.30	16/10/2025
32311405	POUL-SP512-C	ES	0.40 - 0.50	16/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32311370		PACK-3		WP-Egg box		0.00 - 0.00		50ml digitube (ALE001)		PW	
	32311366		PACK-2		WP-Bulk bag		0.00 - 0.00		50ml digitube (ALE001)		PW	
	32311361		PACK-1		WP-Egg bag		0.00 - 0.00		50ml digitube (ALE001)		PW	
	32311347		GR04-SP401-C		ES		0.50 - 0.60		1kg TUB with Handle (ALE260)		S	
	32311420		GR04-SP401-C		ES		0.20 - 0.30		1kg TUB with Handle (ALE260)		S	
32311418		GR04-SP401-C		ES		0.10 - 0.20		1kg TUB with Handle (ALE260)		S		
32311414		GR04-SP401-B		WT		0.40 - 0.50		50ml digitube (ALE001)		PW		
32311412		GR04-SP401-B		ESALS		0.40 - 0.50		1kg TUB with Handle (ALE260)		S		
32311410		GR04-SP401-B		ES		0.30 - 0.40		1kg TUB with Handle (ALE260)		S		
32311407		GR04-SP401-B		ES		0.00 - 0.10		1kg TUB with Handle (ALE260)		S		
32311359		GR04-SP441-A		ESALS		0.40 - 0.50		1kg TUB with Handle (ALE260)		S		
32311357		GR04-SP441-A		ES		0.20 - 0.30		1kg TUB with Handle (ALE260)		S		
32311355		GR04-SP441-A		ES		0.00 - 0.10		1kg TUB with Handle (ALE260)		S		
32311353		GR04-SP410-A		ES		0.40 - 0.50		1kg TUB with Handle (ALE260)		S		
32311351		GR04-SP410-A		ESALS		0.30 - 0.40		1kg TUB with Handle (ALE260)		S		
32311349		GR04-SP410-A		ES		0.00 - 0.10		1kg TUB with Handle (ALE260)		S		
32311399		GR04-SP401-A		ES		0.50 - 0.60		1kg TUB with Handle (ALE260)		S		
32311374		GR04-SP401-A		ES		0.30 - 0.40		1kg TUB with Handle (ALE260)		S		
32311345		GR04-SP401-A		ES		0.10 - 0.20		1kg TUB with Handle (ALE260)		S		
Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	PFAS in soils		All	NDPs: 0 Tests: 27								
	PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 5								
	pH		All	NDPs: 0 Tests: 27								
	Sample description		All	NDPs: 0 Tests: 26								
	Total Organic Carbon		All	NDPs: 0 Tests: 27								

32311405	POUL-SP512-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311403	POUL-SP512-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311401	POUL-SP512-C	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311397	POUL-SP512-B-S2	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311395	POUL-SP512-B-S2	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311393	POUL-SP512-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311391	POUL-SP512-B-S1	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311389	POUL-SP512-B-S1	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311386	POUL-SP512-B-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311382	POUL-SP512-A	WT	0.40 - 0.50	50ml digitube (ALE001)	PW		X						
32311380	POUL-SP512-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311378	POUL-SP512-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X			X
32311376	POUL-SP512-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X			X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32311345	GR04-SP401-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32311374	GR04-SP401-A	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32311399	GR04-SP401-A	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32311349	GR04-SP410-A	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32311351	GR04-SP410-A	0.30 - 0.40	Dark Brown	Sandy Clay	Glass & Stones	Tile/Insulation Board
32311353	GR04-SP410-A	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32311355	GR04-SP441-A	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	Stones
32311357	GR04-SP441-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Brick
32311359	GR04-SP441-A	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	None
32311407	GR04-SP401-B	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	None
32311410	GR04-SP401-B	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	None
32311412	GR04-SP401-B	0.40 - 0.50	Light Brown	Clay	Vegetation	None
32311347	GR04-SP401-C	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311418	GR04-SP401-C	0.10 - 0.20	Dark Brown	Clay Loam	Vegetation	None
32311420	GR04-SP401-C	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311376	POUL-SP512-A	0.00 - 0.10	Light Brown	Silty Clay Loam	Stones	Vegetation
32311378	POUL-SP512-A	0.30 - 0.40	Dark Brown	Silt Loam	Stones	Vegetation
32311380	POUL-SP512-A	0.40 - 0.50	Dark Brown	Silt Loam	Stones	Vegetation
32311386	POUL-SP512-B-S1	0.10 - 0.20	Dark Brown	Silt Loam	Stones	Vegetation
32311389	POUL-SP512-B-S1	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311391	POUL-SP512-B-S1	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32311393	POUL-SP512-B-S1	0.50 - 0.60	Light Brown	Sandy Clay Loam	Vegetation	Stones
32311395	POUL-SP512-B-S2	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311397	POUL-SP512-B-S2	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311401	POUL-SP512-C	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	None
32311403	POUL-SP512-C	0.20 - 0.30	Dark Brown	Silty Clay	Glass & Stones	Vegetation
32311405	POUL-SP512-C	0.40 - 0.50	Dark Brown	Silty Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP401-A	GR04-SP401-A	GR04-SP401-A	GR04-SP410-A	GR04-SP410-A	GR04-SP410-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-47	251018-47	251018-47	251018-47	251018-47	251018-47
* Subcontracted - refer to subcontractor report for accreditation status.					32311345	32311374	32311399	32311349	32311351	32311353
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			27	25	23	21	19	19
Soil Organic Matter (SOM)	<0.35 %	TM132			3.93	2.69	1.55	9.79	4.74	6.22
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.35	6.67	7.16	7.86	8.09	8.12
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.36	<0.5	1.11
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.84	2.23	1.35	4.05	4.99	5.97
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	1.23	0.958	1.36
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP441-A	GR04-SP441-A	GR04-SP441-A	GR04-SP401-B	GR04-SP401-B	GR04-SP401-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-47	251018-47	251018-47	251018-47	251018-47	251018-47
* Subcontracted - refer to subcontractor report for accreditation status.					32311355	32311357	32311359	32311407	32311410	32311412
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			27	18	14	29	21	23
Soil Organic Matter (SOM)	<0.35 %	TM132			4.34	1.56	1.62	3.86	1.14	1.55
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.07	8.42	8.62	5.22	6.32	6.59
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.81	1.35	2.65	1.46	1.28	1.42
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP401-B	GR04-SP401-C	GR04-SP401-C	GR04-SP401-C	PACK-1	PACK-2
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
	Depth (m)	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.00 - 0.00		
	Sample Type	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Process Water (PR)		
	Date Sampled	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025		
	Sample Time								
	Date Received	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025		
	SDG Ref	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47		
	Lab Sample No.(s)	32311414	32311418	32311420	32311347	32311361	32311366		
	AGS Reference	WT	ES	ES	ES	WP-Egg bag	WP-Bulk bag		
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005				<0.005	<0.025	
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003				<0.003	<0.015	
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005				<0.005	<0.025	
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065				<0.00065	<0.00325	
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005				<0.005	<0.025	
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005				<0.005	<0.025	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065				<0.00065	<0.00325	
Branched PFOS	<0.00065 µg/l	TM434	<0.00065				<0.00065	<0.00325	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002				<0.002	<0.01	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001				<0.001	<0.005	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP401-B	GR04-SP401-C	GR04-SP401-C	GR04-SP401-C	PACK-1	PACK-2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Process Water (PR) 16/10/2025	0.10 - 0.20 Soil/Solid (S) 16/10/2025	0.20 - 0.30 Soil/Solid (S) 16/10/2025	0.50 - 0.60 Soil/Solid (S) 16/10/2025	0.00 - 0.00 Process Water (PR) 16/10/2025	0.00 - 0.00 Process Water (PR) 16/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					17/10/2025 251018-47 32311414 WT	17/10/2025 251018-47 32311418 ES	17/10/2025 251018-47 32311420 ES	17/10/2025 251018-47 32311347 ES	17/10/2025 251018-47 32311361 WP-Egg bag	17/10/2025 251018-47 32311366 WP-Bulk bag
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*% Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002				<0.002	<0.01
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002				<0.002	<0.01
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003				<0.003	<0.015
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002				<0.002	<0.01
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002				<0.002	<0.01
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002				<0.002	<0.01
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002				<0.002	<0.01
PFHxA (67905-19-5)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01				<0.01	<0.05
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01				<0.01	<0.05
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01				<0.01	<0.05
Total PFOS	<0.00065 µg/l	TM434			<0.00065				<0.00065	<0.00325
Total PFAS DWI 47	<0.09 µg/l	TM434			<0.09				<0.09	<0.45
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001				<0.001	<0.005
Moisture Content Ratio (% of as received sample)	%	PM024				25	26	31		
Soil Organic Matter (SOM)	<0.35 %	TM132				3.62	3.95	5.09		
						#	#	#		
pH	1 pH Units	TM133				5.5	5.51	6.14		
						M	M	M		
PFBA (375-22-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440				<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440				<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR04-SP401-B	GR04-SP401-C	GR04-SP401-C	GR04-SP401-C	PACK-1	PACK-2
#	ISO17025 accredited.			0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.00	0.00 - 0.00
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Process Water (PR)
aq	Aqueous / settled sample.			16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440		6.02	2.75	12.4			
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5			
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4			
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8			
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6			
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6			
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6			
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7			
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5			

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

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CERTIFICATE OF ANALYSIS

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SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	PACK-3	POUL-SP512-A	POUL-SP512-A	POUL-SP512-A	POUL-SP512-A	POUL-SP512-B-S1
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)				0.00 - 0.00 Process Water (PR) 16/10/2025	0.00 - 0.10 Soil/Solid (S) 16/10/2025	0.30 - 0.40 Soil/Solid (S) 16/10/2025	0.40 - 0.50 Soil/Solid (S) 16/10/2025	0.40 - 0.50 Process Water (PR) 16/10/2025	0.10 - 0.20 Soil/Solid (S) 16/10/2025
				17/10/2025 251018-47 32311370 WP-Egg box	17/10/2025 251018-47 32311376 ES	17/10/2025 251018-47 32311378 ES	17/10/2025 251018-47 32311380 ES	17/10/2025 251018-47 32311382 WT	17/10/2025 251018-47 32311386 ES
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002 4				<0.002	
PFMOPrA (377-73-1)	<0.001 µg/l	TM434		<0.001 4				<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005 4				<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001 4				<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001 4				<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001 4				<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003 4				<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434	0.00182 4				<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001 4				<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002 4				<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001 4				<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001 4				<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001 4				<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005 4				<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001 4				<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001 4				<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001 4				<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434	0.000934 4				<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001 4				<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001 4				<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001 4				<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002 4				<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005 4				<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002 4				<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002 4				<0.002		
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005 4				<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	0.00104 4				0.00115		
Branched PFOS	<0.00065 µg/l	TM434	0.000968 4				0.00108		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002 4				<0.002		
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002 4				<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001 4				<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001 4				<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001 4				<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		PACK-3	POUL-SP512-A	POUL-SP512-A	POUL-SP512-A	POUL-SP512-A	POUL-SP512-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.00	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20
m	mCERTS accredited.				Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-47	251018-47	251018-47	251018-47	251018-47	251018-47
* Subcontracted - refer to subcontractor report for accreditation status.					32311370	32311376	32311378	32311380	32311382	32311386
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					WP-Egg box	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002				<0.002	
					4					
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002				<0.002	
					4					
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003				<0.003	
					4					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002				<0.002	
					4					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002				<0.002	
					4					
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002				<0.002	
					4					
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002				<0.002	
					4					
PFHxA (67905-19-5)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01				<0.01	
					4					
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01				<0.01	
					4					
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01				<0.01	
					4					
Total PFOS	<0.00065 µg/l	TM434			0.00201				0.00223	
					4					
Total PFAS DWI 47	<0.09 µg/l	TM434			<0.09				<0.09	
					4					
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001				<0.001	
					4					
Moisture Content Ratio (% of as received sample)	%	PM024				27	20	19		22
Soil Organic Matter (SOM)	<0.35 %	TM132				7.19	4.84	2.55		11.7
						#	#	#		#
pH	1 pH Units	TM133				6.29	6.5	7.14		6.41
						M	M	M		M
PFBA (375-22-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440				<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440				<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5		<0.5



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SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	PACK-3 0.00 - 0.00 Process Water (PR) 16/10/2025 17/10/2025 251018-47 32311370 WP-Egg box	POUL-SP512-A 0.00 - 0.10 Soil/Solid (S) 16/10/2025 17/10/2025 251018-47 32311378 ES	POUL-SP512-A 0.30 - 0.40 Soil/Solid (S) 16/10/2025 17/10/2025 251018-47 32311378 ES	POUL-SP512-A 0.40 - 0.50 Soil/Solid (S) 16/10/2025 17/10/2025 251018-47 32311380 ES	POUL-SP512-A 0.40 - 0.50 Process Water (PR) 16/10/2025 17/10/2025 251018-47 32311382 WT	POUL-SP512-B-S1 0.10 - 0.20 Soil/Solid (S) 16/10/2025 17/10/2025 251018-47 32311386 ES
# ISO17025 accredited. mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440							
ADONA (919005-14-4)	<0.5 µg/kg	TM440							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440							
PFOA (335-67-1)	<0.5 µg/kg	TM440							
PFHxS (355-46-4)	<0.5 µg/kg	TM440							
FBSA (30334-69-1)	<0.5 µg/kg	TM440							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440							
PFNA (375-95-1)	<0.5 µg/kg	TM440							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440							
PFHpS (375-92-8)	<0.6 µg/kg	TM440							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440							
PFDA (335-76-2)	<0.5 µg/kg	TM440							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440							
Branched PFOS	<0.6 µg/kg	TM440							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440							
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440							
PFUnA (2058-94-8)	<0.5 µg/kg	TM440							
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440							
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440							
FHxSA (41997-13-1)	<0.5 µg/kg	TM440							
PFNS (68259-12-1)	<0.5 µg/kg	TM440							
PFDoA (307-55-1)	<0.6 µg/kg	TM440							
PFDS (335-77-3)	<0.6 µg/kg	TM440							
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440							
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440							
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440							
PFTeA (376-06-7)	<0.5 µg/kg	TM440							
PFOSA (754-91-6)	<0.5 µg/kg	TM440							
PFDoS (79780-39-5)	<0.5 µg/kg	TM440							

SDG: 251018-47
Client Ref.: UK-70100310

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Superseded Report:

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SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S2	POUL-SP512-B-S2	POUL-SP512-C
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)	6:2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	22	25	19	20	21	30	
Soil Organic Matter (SOM)	<0.35 %	TM132	6.72	9.64	1.93	3.65	4.52	6.52	
pH	1 pH Units	TM133	6.51	6.45	7.23	6.86	6.49	6.39	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.26	3.08	4.42	3.09	2.7	3.49	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	0.945	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



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SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	POUL-SP512-C		POUL-SP512-C				
# ISO17025 accredited.			0.20 - 0.30	0.40 - 0.50					
M mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)					
aq Aqueous / settled sample.			16/10/2025	16/10/2025					
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.			17/10/2025	17/10/2025					
* Subcontracted - refer to subcontractor report for accreditation status.			251018-47	251018-47					
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32311403	32311405					
*** 6:2 FTAB (see appendix)			ES	ES					
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	23	18					
Soil Organic Matter (SOM)	<0.35 %	TM132	4.48	1.81					
			#	#					
pH	1 pH Units	TM133	6.63	7.08					
			M	M					
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5					
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8					
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5					
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8					
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5					
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1					
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5					
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5					
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.68	2.74					
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5					
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5					
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10					
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5					
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6					
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9					
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4					
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5					
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5					
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6					
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6					
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	POUL-SP512-C 0.20 - 0.30 Soil/Solid (S) 16/10/2025 17/10/2025 251018-47 32311403 ES	POUL-SP512-C 0.40 - 0.50 Soil/Solid (S) 16/10/2025 17/10/2025 251018-47 32311405 ES				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4				
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5				
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8				
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6				
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6				
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6				
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7				
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
MeFOSE (24448-09-7)	<5 µg/kg	TM440	<5	<5				
PFHxDA (67905-19-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
N-MeFOSA (31506-32-8)	<0.5 µg/kg	TM440	<0.5	<0.5				
8:2 diPAP (678-41-1)	<0.9 µg/kg	TM440	<0.9	<0.9				
EtFOSE (1691-99-2)	<5 µg/kg	TM440	<5	<5				
N-EtFOSA (4151-50-2)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFODA (16517-11-6)	<0.5 µg/kg	TM440	<0.5	<0.5				
Total PFOS	<0.6 µg/kg	TM440	<0.6	<0.6				
Total Identified PFAS	<51 µg/kg	TM440	<51	<51				
				</				



CERTIFICATE OF ANALYSIS

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Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32311345	32311374	32311399	32311349	32311351	32311353	32311355	32311357	32311359	32311407
	GR04-SP401-A	GR04-SP401-A	GR04-SP401-A	GR04-SP410-A	GR04-SP410-A	GR04-SP410-A	GR04-SP441-A	GR04-SP441-A	GR04-SP441-A	GR04-SP401-B
	ES	ES	ES	ES	ESALS	ES	ES	ES	ESALS	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	29-Oct-2025	27-Oct-2025	23-Oct-2025	27-Oct-2025	29-Oct-2025	29-Oct-2025	24-Oct-2025	23-Oct-2025	29-Oct-2025	27-Oct-2025
pH	20-Oct-2025	20-Oct-2025	20-Oct-2025	22-Oct-2025	20-Oct-2025	22-Oct-2025	20-Oct-2025	20-Oct-2025	24-Oct-2025	22-Oct-2025
Sample description	18-Oct-2025	18-Oct-2025	18-Oct-2025	20-Oct-2025	18-Oct-2025	20-Oct-2025	18-Oct-2025	18-Oct-2025	22-Oct-2025	20-Oct-2025
Total Organic Carbon	27-Oct-2025	29-Oct-2025	24-Oct-2025	28-Oct-2025	24-Oct-2025	28-Oct-2025	28-Oct-2025	29-Oct-2025	29-Oct-2025	28-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32311410	32311412	32311414	32311347	32311418	32311420	32311361	32311366	32311370	32311376
	GR04-SP401-B	GR04-SP401-B	GR04-SP401-B	GR04-SP401-C	GR04-SP401-C	GR04-SP401-C	PACK-1	PACK-2	PACK-3	POUL-SP512-A
	ES	ESALS	WT	ES	ES	ES	WP-Egg bag	WP-Bulk bag	WP-Egg box	ES
	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Process	Process	Soil/Solid (S)
PFAS in soils	27-Oct-2025	27-Oct-2025		27-Oct-2025	27-Oct-2025	27-Oct-2025				27-Oct-2025
PFAS Liquids (Full Suite)			24-Oct-2025				23-Oct-2025	24-Oct-2025	28-Oct-2025	
pH	22-Oct-2025	20-Oct-2025		22-Oct-2025	24-Oct-2025	22-Oct-2025				22-Oct-2025
Sample description	20-Oct-2025	18-Oct-2025		21-Oct-2025	22-Oct-2025	21-Oct-2025				21-Oct-2025
Total Organic Carbon	28-Oct-2025	28-Oct-2025		28-Oct-2025	27-Oct-2025	28-Oct-2025				28-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32311378	32311380	32311382	32311386	32311389	32311391	32311393	32311395	32311397	32311401
	POUL-SP512-A	POUL-SP512-A	POUL-SP512-A	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S2	POUL-SP512-B-S2	POUL-SP512-C
	ES	ES	WT	ES	ESA1	ESA2	ES	ESA1	ESA2	ESALS
	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.50 - 0.60	0.20 - 0.30	0.20 - 0.30	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	29-Oct-2025	27-Oct-2025		29-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025
PFAS Liquids (Full Suite)			24-Oct-2025							
pH	22-Oct-2025	22-Oct-2025		22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025
Sample description	21-Oct-2025	21-Oct-2025		21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	20-Oct-2025
Total Organic Carbon	28-Oct-2025	28-Oct-2025		29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	27-Oct-2025	28-Oct-2025	28-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32311403	32311405
	POUL-SP512-C	POUL-SP512-C
	ES	ES
	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	27-Oct-2025	27-Oct-2025
pH	20-Oct-2025	20-Oct-2025
Sample description	18-Oct-2025	18-Oct-2025
Total Organic Carbon	28-Oct-2025	29-Oct-2025



CERTIFICATE OF ANALYSIS

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SDG: 251018-47
Client Ref.: UK-70100310Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3224	QC 3203	QC 3234	QC 3207	QC 3208	QC 3274
10:2 FTS (Raw)	TM440	103.37 53.10 : 140.00	101.0 53.10 : 140.00	125.07 53.10 : 140.00	82.58 53.10 : 140.00	124.52 53.10 : 140.00	92.09 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	109.09 53.56 : 141.19	97.04 53.56 : 141.19	102.61 53.56 : 141.19	85.6 53.56 : 141.19	118.61 53.56 : 141.19	100.53 53.56 : 141.19
3:3 FTCA (Raw)	TM440	88.03 50.54 : 133.25	96.83 50.54 : 133.25	80.16 50.54 : 133.25	71.04 50.54 : 133.25	108.83 50.54 : 133.25	91.19 50.54 : 133.25
4:2 FTS (Raw)	TM440	102.1 56.34 : 145.91	100.58 56.34 : 145.91	92.72 56.34 : 145.91	88.28 56.34 : 145.91	127.83 56.34 : 145.91	94.3 56.34 : 145.91
5:3 FTCA (Raw)	TM440	99.04 52.66 : 130.08	104.03 52.66 : 130.08	94.64 52.66 : 130.08	80.93 52.66 : 130.08	116.95 52.66 : 130.08	93.1 52.66 : 130.08
6:2 FTAB (Raw)	TM440	36.93 38.50 : 101.50	38.13 38.50 : 101.50	36.71 38.50 : 101.50	34.31 38.50 : 101.50	49.16 38.50 : 101.50	36.69 38.50 : 101.50
6:2 FTS (Raw)	TM440	97.71 54.79 : 144.46	96.72 54.79 : 144.46	91.38 54.79 : 144.46	91.19 54.79 : 144.46	129.55 54.79 : 144.46	100.65 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.44 48.60 : 128.14	91.91 48.60 : 128.14	108.44 48.60 : 128.14	74.09 48.60 : 128.14	126.42 48.60 : 128.14	95.51 48.60 : 128.14
8:2 diPAP (Raw)	TM440	92.21 56.03 : 147.72	126.25 56.03 : 147.72	85.36 56.03 : 147.72	100.66 56.03 : 147.72	129.38 56.03 : 147.72	86.76 56.03 : 147.72
8:2 FTS (Raw)	TM440	93.0 55.74 : 146.96	100.77 55.74 : 146.96	79.48 55.74 : 146.96	85.71 55.74 : 146.96	132.76 55.74 : 146.96	88.77 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	98.86 54.59 : 143.91	97.09 54.59 : 143.91	96.85 54.59 : 143.91	90.93 54.59 : 143.91	122.27 54.59 : 143.91	95.11 54.59 : 143.91
ADONA (Raw)	TM440	101.59 54.01 : 132.33	100.54 54.01 : 132.33	87.82 54.01 : 132.33	84.06 54.01 : 132.33	124.15 54.01 : 132.33	86.78 54.01 : 132.33
Branched PFOS (Raw)	TM440	101.0 54.09 : 142.61	115.92 54.09 : 142.61	92.93 54.09 : 142.61	97.27 54.09 : 142.61	127.15 54.09 : 142.61	97.4 54.09 : 142.61
EtFOSAA (Raw)	TM440	102.98 52.48 : 138.36	122.3 52.48 : 138.36	87.66 52.48 : 138.36	83.02 52.48 : 138.36	126.82 52.48 : 138.36	82.84 52.48 : 138.36
EtFOSE (Raw)	TM440	102.53 57.05 : 145.29	104.43 57.05 : 145.29	89.29 57.05 : 145.29	87.51 57.05 : 145.29	125.82 57.05 : 145.29	96.51 57.05 : 145.29
FBSA (Raw)	TM440	96.9 49.51 : 125.13	98.79 49.51 : 125.13	60.11 49.51 : 125.13	77.85 49.51 : 125.13	123.86 49.51 : 125.13	67.99 49.51 : 125.13
FHxSA (Raw)	TM440	102.54 50.38 : 132.82	106.02 50.38 : 132.82	94.15 50.38 : 132.82	75.86 50.38 : 132.82	130.36 50.38 : 132.82	89.84 50.38 : 132.82
HFPO-DA (Raw)	TM440	100.56 53.47 : 140.98	109.68 53.47 : 140.98	89.38 53.47 : 140.98	85.63 53.47 : 140.98	121.45 53.47 : 140.98	88.59 53.47 : 140.98
HFPO-TA (Raw)	TM440	106.4 54.77 : 144.39	114.98 54.77 : 144.39	93.16 54.77 : 144.39	83.33 54.77 : 144.39	124.72 54.77 : 144.39	92.1 54.77 : 144.39
L-PFOS (Raw)	TM440	101.0 54.09 : 142.61	109.66 54.09 : 142.61	92.93 54.09 : 142.61	102.27 54.09 : 142.61	127.15 54.09 : 142.61	97.4 54.09 : 142.61
MeFOSAA (Raw)	TM440	103.54 53.02 : 139.78	119.99 53.02 : 139.78	83.7 53.02 : 139.78	81.98 53.02 : 139.78	136.1 53.02 : 139.78	94.34 53.02 : 139.78
MeFOSE (Raw)	TM440	101.18 54.99 : 144.97	96.26 54.99 : 144.97	86.86 54.99 : 144.97	88.7 54.99 : 144.97	131.99 54.99 : 144.97	94.56 54.99 : 144.97
N-EtFOSA (Raw)	TM440	103.82 59.56 : 132.93	99.01 59.56 : 132.93	88.94 59.56 : 132.93	80.5 59.56 : 132.93	119.98 59.56 : 132.93	88.09 59.56 : 132.93
NFDHA (Raw)	TM440	104.6 57.35 : 151.20	103.75 57.35 : 151.20	89.64 57.35 : 151.20	76.74 57.35 : 151.20	121.51 57.35 : 151.20	93.08 57.35 : 151.20
N-MeFOSA (Raw)	TM440	105.18 59.19 : 133.01	104.76 59.19 : 133.01	87.69 59.19 : 133.01	87.9 59.19 : 133.01	125.75 59.19 : 133.01	99.68 59.19 : 133.01
PFBA (Raw)	TM440	104.74 52.69 : 138.91	98.23 52.69 : 138.91	88.72 52.69 : 138.91	101.16 52.69 : 138.91	126.64 52.69 : 138.91	98.0 52.69 : 138.91



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

		QC 3224	QC 3203	QC 3234	QC 3207	QC 3208	QC 3274
PFBS (Raw)	TM440	104.24 53.31 : 140.54	96.03 53.31 : 140.54	99.01 53.31 : 140.54	91.56 53.31 : 140.54	120.57 53.31 : 140.54	97.91 53.31 : 140.54
PFDA (Raw)	TM440	105.55 53.39 : 140.76	104.3 53.39 : 140.76	83.98 53.39 : 140.76	90.0 53.39 : 140.76	126.06 53.39 : 140.76	92.59 53.39 : 140.76
PFDoA (Raw)	TM440	105.71 52.85 : 139.34	109.99 52.85 : 139.34	90.57 52.85 : 139.34	93.7 52.85 : 139.34	128.55 52.85 : 139.34	89.58 52.85 : 139.34
PFDoS (Raw)	TM440	107.03 55.29 : 145.76	105.31 55.29 : 145.76	100.88 55.29 : 145.76	87.68 55.29 : 145.76	120.29 55.29 : 145.76	97.4 55.29 : 145.76
PFDS (Raw)	TM440	107.51 52.94 : 139.56	97.83 52.94 : 139.56	99.67 52.94 : 139.56	89.92 52.94 : 139.56	115.51 52.94 : 139.56	96.02 52.94 : 139.56
PFecHS (Raw)	TM440	96.99 50.75 : 133.80	108.61 50.75 : 133.80	78.51 50.75 : 133.80	81.41 50.75 : 133.80	123.62 50.75 : 133.80	85.51 50.75 : 133.80
PFEESA (Raw)	TM440	97.61 50.87 : 134.12	97.07 50.87 : 134.12	92.43 50.87 : 134.12	87.74 50.87 : 134.12	114.21 50.87 : 134.12	93.5 50.87 : 134.12
PFHpA (Raw)	TM440	104.61 52.61 : 138.69	102.86 52.61 : 138.69	94.01 52.61 : 138.69	94.15 52.61 : 138.69	132.4 52.61 : 138.69	98.83 52.61 : 138.69
PFHpS (Raw)	TM440	95.08 55.29 : 145.76	97.36 55.29 : 145.76	91.28 55.29 : 145.76	88.95 55.29 : 145.76	117.83 55.29 : 145.76	98.06 55.29 : 145.76
PFHxA (Raw)	TM440	105.93 54.05 : 142.50	94.28 54.05 : 142.50	89.49 54.05 : 142.50	90.58 54.05 : 142.50	134.08 54.05 : 142.50	96.09 54.05 : 142.50
PFHxDA (Raw)	TM440	99.12 52.03 : 137.17	116.2 52.03 : 137.17	87.42 52.03 : 137.17	86.74 52.03 : 137.17	130.25 52.03 : 137.17	89.75 52.03 : 137.17
PFHxS (Raw)	TM440	106.06 53.56 : 141.19	104.26 53.56 : 141.19	77.46 53.56 : 141.19	88.33 53.56 : 141.19	118.98 53.56 : 141.19	80.48 53.56 : 141.19
PFMOBA (Raw)	TM440	97.68 52.73 : 139.02	101.74 52.73 : 139.02	88.34 52.73 : 139.02	82.8 52.73 : 139.02	120.21 52.73 : 139.02	99.38 52.73 : 139.02
PFMOPra (Raw)	TM440	97.51 52.57 : 138.58	98.0 52.57 : 138.58	80.44 52.57 : 138.58	70.27 52.57 : 138.58	114.81 52.57 : 138.58	59.52 52.57 : 138.58
PFNA (Raw)	TM440	103.84 52.94 : 139.56	101.09 52.94 : 139.56	89.83 52.94 : 139.56	87.14 52.94 : 139.56	124.57 52.94 : 139.56	99.86 52.94 : 139.56
PFNS (Raw)	TM440	102.12 54.38 : 143.37	94.28 54.38 : 143.37	98.46 54.38 : 143.37	94.15 54.38 : 143.37	122.62 54.38 : 143.37	102.95 54.38 : 143.37
PFOA (Raw)	TM440	100.52 53.80 : 141.85	102.12 53.80 : 141.85	86.63 53.80 : 141.85	87.65 53.80 : 141.85	137.6 53.80 : 141.85	91.85 53.80 : 141.85
PFODA (Raw)	TM440	91.38 56.03 : 147.72	122.16 56.03 : 147.72	76.21 56.03 : 147.72	70.82 56.03 : 147.72	116.52 56.03 : 147.72	84.13 56.03 : 147.72
PFOSA (Raw)	TM440	93.6 53.10 : 140.00	101.28 53.10 : 140.00	85.07 53.10 : 140.00	85.42 53.10 : 140.00	120.49 53.10 : 140.00	90.82 53.10 : 140.00
PFPA (Raw)	TM440	109.85 53.89 : 142.06	100.81 53.89 : 142.06	94.16 53.89 : 142.06	86.6 53.89 : 142.06	129.27 53.89 : 142.06	102.26 53.89 : 142.06
PFPeS (Raw)	TM440	107.41 54.30 : 143.15	109.49 54.30 : 143.15	83.02 54.30 : 143.15	85.12 54.30 : 143.15	120.73 54.30 : 143.15	87.7 54.30 : 143.15
PFTeA (Raw)	TM440	110.42 53.06 : 139.89	107.89 53.06 : 139.89	89.87 53.06 : 139.89	93.04 53.06 : 139.89	132.18 53.06 : 139.89	100.02 53.06 : 139.89
PFTrDA (Raw)	TM440	108.19 51.70 : 136.30	109.56 51.70 : 136.30	92.12 51.70 : 136.30	91.13 51.70 : 136.30	134.82 51.70 : 136.30	100.01 51.70 : 136.30
PFTrDS (Raw)	TM440	105.67 56.24 : 148.26	101.59 56.24 : 148.26	101.49 56.24 : 148.26	89.43 56.24 : 148.26	115.18 56.24 : 148.26	101.39 56.24 : 148.26
PFUnA (Raw)	TM440	107.81 53.35 : 140.65	108.55 53.35 : 140.65	95.49 53.35 : 140.65	85.43 53.35 : 140.65	133.65 53.35 : 140.65	100.4 53.35 : 140.65
PFUnDS (Raw)	TM440	108.41 53.60 : 141.30	107.95 53.60 : 141.30	106.99 53.60 : 141.30	82.39 53.60 : 141.30	120.74 53.60 : 141.30	100.58 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-47
Client Ref.: UK-70100310

Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3288	QC 3245	QC 3216
11CI-PF3OUdS (763051-92-9)	TM434	101.14 62.16 : 138.51	99.22 71.39 : 130.11	128.67 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	109.74 89.89 : 130.69	92.16 53.44 : 140.89	111.41 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	95.7 66.54 : 140.56	102.97 80.71 : 134.26	109.11 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	88.03 60.34 : 133.39	122.2 64.44 : 139.44	90.42 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	95.36 59.12 : 129.56	110.19 58.31 : 142.44	109.51 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	93.15 67.48 : 129.58	102.86 73.93 : 134.90	110.54 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	100.59 79.83 : 133.08	123.69 61.23 : 140.88	105.62 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	96.3 81.70 : 132.18	94.79 82.68 : 128.35	107.51 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	102.18 71.98 : 136.03	92.65 69.20 : 147.13	126.79 71.98 : 136.03
ADONA (919005-14-4)	TM434	101.34 70.14 : 142.14	96.63 73.23 : 135.10	119.12 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	89.27 67.04 : 131.16	98.61 72.95 : 133.93	111.61 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	109.74 67.92 : 135.38	116.39 67.47 : 136.89	121.17 67.92 : 135.38
FBSA (30334-69-1)	TM434	101.35 58.08 : 137.20	127.46 63.70 : 143.28	105.55 58.08 : 137.20
FHxSA (41997-13-1)	TM434	101.19 71.81 : 148.16	122.74 63.00 : 139.73	104.45 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	108.02 57.03 : 123.70	99.91 67.58 : 142.95	111.72 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	110.2 55.94 : 147.48	101.91 69.04 : 147.42	108.22 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	99.74 69.95 : 145.18	97.61 70.63 : 141.88	117.16 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	93.88 68.44 : 128.29	101.7 75.64 : 130.69	111.49 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	105.82 70.83 : 132.00	116.93 72.41 : 131.62	120.03 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	103.16 59.26 : 122.86	147.16 57.83 : 132.08	113.73 59.26 : 122.86
NFDHA (151772-58-6)	TM434	94.43 59.99 : 133.56	97.83 57.60 : 134.40	106.3 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	98.3 62.71 : 118.96	157.59 61.69 : 135.49	120.04 62.71 : 118.96
PFBA (375-22-4)	TM434	95.62 67.84 : 130.39	101.58 74.68 : 133.63	107.4 67.84 : 130.39
PFBS (375-73-5)	TM434	100.5 90.25 : 126.25	95.93 74.09 : 133.79	123.24 90.25 : 126.25
PFDA (335-76-2)	TM434	93.39 68.94 : 132.99	102.28 72.39 : 135.76	112.36 68.94 : 132.99
PFDaA (307-55-1)	TM434	92.66 66.19 : 135.04	99.95 58.06 : 148.21	107.44 66.19 : 135.04
PFDoS (79780-39-5)	TM434	103.91 65.90 : 146.45	93.0 74.76 : 130.94	113.16 65.90 : 146.45



CERTIFICATE OF ANALYSIS

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Superseded Report:

PFAS Liquids (Full Suite)

		QC 3288	QC 3245	QC 3216
PFDS (335-77-3)	TM434	100.9 64.84 : 138.49	105.56 58.61 : 140.44	127.31 64.84 : 138.49
PFEESA (113507-82-7)	TM434	100.25 67.24 : 129.19	97.41 62.25 : 138.08	116.59 67.24 : 129.19
PFHpA (375-85-9)	TM434	103.73 72.89 : 141.36	97.41 75.71 : 136.46	117.78 72.89 : 141.36
PFHpS (375-92-8)	TM434	103.48 72.19 : 155.36	92.0 76.13 : 132.38	123.13 72.19 : 155.36
PFHxA (307-24-4)	TM434	95.26 71.79 : 135.84	99.39 78.16 : 133.89	105.6 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	100.34 89.96 : 128.14	100.46 71.24 : 136.49	112.66 89.96 : 128.14
PFHxS (355-46-4)	TM434	105.96 84.41 : 134.44	101.75 73.25 : 135.20	125.11 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	100.87 84.99 : 139.74	87.06 76.41 : 130.26	110.39 84.99 : 139.74
PFMOPra (377-73-1)	TM434	101.61 80.40 : 136.73	98.97 65.74 : 128.74	110.16 80.40 : 136.73
PFNA (375-95-1)	TM434	92.2 68.61 : 128.99	103.33 75.01 : 133.06	111.14 68.61 : 128.99
PFNS (68259-12-1)	TM434	120.26 70.70 : 130.93	106.64 74.74 : 129.26	133.69 70.70 : 130.93
PFOA (335-67-1)	TM434	105.1 74.09 : 143.61	99.86 74.76 : 136.11	114.73 74.09 : 143.61
PFODA (16517-11-6)	TM434	94.52 68.70 : 175.88	100.83 53.58 : 141.25	112.48 68.70 : 175.88
PFOSA (754-91-6)	TM434	95.3 67.59 : 130.51	98.38 76.54 : 135.04	110.97 67.59 : 130.51
PFPA (2706-90-3)	TM434	113.18 74.20 : 140.58	101.29 77.89 : 134.66	127.28 74.20 : 140.58
PFPeS (2706-91-4)	TM434	108.83 76.19 : 137.91	97.42 69.49 : 132.71	128.51 76.19 : 137.91
PFTeA (376-06-7)	TM434	99.56 66.36 : 144.96	100.82 61.66 : 143.71	116.58 66.36 : 144.96
PFTrDA (72629-94-8)	TM434	98.49 71.98 : 130.25	99.05 67.04 : 136.04	123.81 71.98 : 130.25
PFUnA (2058-94-8)	TM434	92.54 65.55 : 141.45	99.92 70.21 : 138.54	113.35 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	100.87 85.84 : 139.76	100.32 71.45 : 127.25	121.37 85.84 : 139.76

pH

Component	Method Code	QC 3206	QC 3202	QC 3208	QC 3241	QC 3211	QC 3213
pH	TM133	102.32 95.29 : 105.24	102.5 95.29 : 105.24	101.75 95.29 : 105.24	101.33 95.29 : 105.24	101.36 94.00 : 105.06	101.88 94.00 : 105.06



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Report Number: 781596
Location: Thornton Phase 3

Superseded Report:

pH

Component	Method Code	QC 3207
pH	TM133	101.75 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3264	QC 3211	QC 3266	QC 3230	QC 3215	QC 3221
Total Organic Carbon	TM132	96.66 93.61 : 106.00	95.74 93.61 : 106.00	97.17 93.61 : 106.00	95.13 93.61 : 106.00	96.6 93.61 : 106.00	97.26 93.61 : 106.00

Component	Method Code	QC 3234	QC 3245	QC 3247
Total Organic Carbon	TM132	96.18 93.61 : 106.00	96.77 93.61 : 106.00	94.58 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Client Ref: UK-70100310

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Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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email: hawardencustomerservices@alsglobal.com
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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	29 October 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251018-49
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	781598
Order Number:	UK-70100310-403

We received 27 samples on Friday October 17, 2025 and 27 of these samples were scheduled for analysis which was completed on Wednesday October 29, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32311511	POUL-SP513-A	ES	0.10 - 0.20	17/10/2025
32311535	POUL-SP513-A	ESALS	0.30 - 0.40	17/10/2025
32311556	POUL-SP513-A	ES	0.50 - 0.60	17/10/2025
32311558	POUL-SP513-B-S1	ES	0.00 - 0.10	17/10/2025
32311560	POUL-SP513-B-S1	WT	0.00 - 0.10	17/10/2025
32311564	POUL-SP513-B-S1	ES	0.30 - 0.40	17/10/2025
32311566	POUL-SP513-B-S1	ESA1	0.40 - 0.50	17/10/2025
32311568	POUL-SP513-B-S1	ESA2	0.40 - 0.50	17/10/2025
32311570	POUL-SP513-B-S2	ESA1	0.40 - 0.50	17/10/2025
32311513	POUL-SP513-B-S2	ESA2	0.40 - 0.50	17/10/2025
32311515	POUL-SP513-C	ES	0.10 - 0.20	17/10/2025
32311517	POUL-SP513-C	ES	0.20 - 0.30	17/10/2025
32311519	POUL-SP513-C	ES	0.50 - 0.60	17/10/2025
32311521	POUL-SP513-D	ESALS	0.00 - 0.10	17/10/2025
32311523	POUL-SP513-D	ES	0.20 - 0.30	17/10/2025
32311525	POUL-SP513-D	ES	0.40 - 0.50	17/10/2025
32311527	POUL-SP513-E	WS	0.00 - 0.60	17/10/2025
32311531	POUL-SP513-E	ES	0.10 - 0.20	17/10/2025
32311533	POUL-SP513-E	ES	0.30 - 0.40	17/10/2025
32311537	POUL-SP513-E	ES	0.50 - 0.60	17/10/2025
32311539	POUL-SP513-F	ES	0.00 - 0.10	17/10/2025
32311541	POUL-SP513-F	ES	0.30 - 0.40	17/10/2025
32311543	POUL-SP513-F	ES	0.40 - 0.50	17/10/2025
32311545	POUL-SP513-G	ESALS	0.10 - 0.20	17/10/2025
32311548	POUL-SP513-G	ES	0.20 - 0.30	17/10/2025
32311550	POUL-SP513-G	ES	0.50 - 0.60	17/10/2025
32311552	POUL-SP513-G	WT	0.50 - 0.60	17/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32311511	POUL-SP513-A	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Concrete/Aggregate
32311535	POUL-SP513-A	0.30 - 0.40	Dark Brown	Silt Loam	Stones	Vegetation
32311556	POUL-SP513-A	0.50 - 0.60	Dark Brown	Silt Loam	Stones	Vegetation
32311558	POUL-SP513-B-S1	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32311564	POUL-SP513-B-S1	0.30 - 0.40	Dark Brown	Loamy Sand	Stones	Vegetation
32311566	POUL-SP513-B-S1	0.40 - 0.50	Dark Brown	Loamy Sand	Brick	Stones
32311568	POUL-SP513-B-S1	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32311513	POUL-SP513-B-S2	0.40 - 0.50	Dark Brown	Silt Loam	Stones	Vegetation
32311570	POUL-SP513-B-S2	0.40 - 0.50	Dark Brown	Silt Loam	Stones	Vegetation
32311515	POUL-SP513-C	0.10 - 0.20	Light Brown	Sandy Loam	Stones	Vegetation
32311517	POUL-SP513-C	0.20 - 0.30	Dark Brown	Sandy Loam	Vegetation	Concrete/Aggregate
32311519	POUL-SP513-C	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311521	POUL-SP513-D	0.00 - 0.10	Dark Brown	Sand	Stones	Vegetation
32311523	POUL-SP513-D	0.20 - 0.30	Dark Brown	Sand	Stones	Vegetation
32311525	POUL-SP513-D	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32311531	POUL-SP513-E	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	None
32311533	POUL-SP513-E	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32311537	POUL-SP513-E	0.50 - 0.60	Dark Brown	Clay Loam	None	None
32311539	POUL-SP513-F	0.00 - 0.10	Light Brown	Sandy Loam	Stones	Vegetation
32311541	POUL-SP513-F	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32311543	POUL-SP513-F	0.40 - 0.50	Dark Brown	Loamy Sand	Brick	Stones
32311545	POUL-SP513-G	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Tile/Insulation Board
32311548	POUL-SP513-G	0.20 - 0.30	Dark Brown	Silt Loam	Stones	Vegetation
32311550	POUL-SP513-G	0.50 - 0.60	Dark Brown	Silty Clay	Brick	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	POUL-SP513-A		POUL-SP513-A		POUL-SP513-A		POUL-SP513-B-S1		POUL-SP513-B-S1		POUL-SP513-B-S1		
#	ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20 Soil/Solid (S) 17/10/2025		0.30 - 0.40 Soil/Solid (S) 17/10/2025		0.50 - 0.60 Soil/Solid (S) 17/10/2025		0.00 - 0.10 Soil/Solid (S) 17/10/2025		0.00 - 0.10 Process Water (PR) 17/10/2025		0.30 - 0.40 Soil/Solid (S) 17/10/2025	
M	mCERTS accredited.															
aq	Aqueous / settled sample.															
diss.filt	Dissolved / filtered sample.															
tot.unfilt	Total / unfiltered sample.															
*	Subcontracted - refer to subcontractor report for accreditation status.															
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery															
***	6:2 FTAB (see appendix)															
1-4**@	Sample deviation (see appendix)															
Component	LOD/Units	Method														
PFBA (375-22-4)	<0.002 µg/l	TM434									<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434									<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434									<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434									<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434									<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434									<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434									<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434									<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434									<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434									<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434									<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434									<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434									<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434									<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434									<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434									<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434									<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434									<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434									<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434									<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434									<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434									<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434									<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434									<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434									<0.002					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434									<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434									<0.00065					
Branched PFOS	<0.00065 µg/l	TM434									<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434									<0.002					
PFUnA (2058-94-8)	<0.002 µg/l	TM434									<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434									<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434									<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434									<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		POUL-SP513-A	POUL-SP513-A	POUL-SP513-A	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-49	251018-49	251018-49	251018-49	251018-49	251018-49
* Subcontracted - refer to subcontractor report for accreditation status.					32311511	32311535	32311556	32311558	32311560	32311564
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024			20	21	21	24		28
Soil Organic Matter (SOM)	<0.35 %	TM132			6.57	2.4	2.12	11.2		13.2
					#	#	#	#		#
pH	1 pH Units	TM133			8.05	7.92	7.71	7.24		7.98
					M	M	M	M		M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		1.81
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	2.56		2.85
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		POUL-SP513-A	POUL-SP513-A	POUL-SP513-A	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
tot.unfilt	Total / unfiltered sample.				251018-49	251018-49	251018-49	251018-49	251018-49	251018-49
* Subcontracted - refer to subcontractor report for accreditation status.					32311511	32311535	32311556	32311558	32311560	32311564
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.97	4.1	2.57	7.3		19.6
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			2.54	<0.6	<0.6	2.49		2.3
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S2	POUL-SP513-B-S2	POUL-SP513-C	POUL-SP513-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
diss.filt	Dissolved / filtered sample.				251018-49	251018-49	251018-49	251018-49	251018-49	251018-49
tot.unfilt	Total / unfiltered sample.				32311566	32311568	32311570	32311513	32311515	32311517
* Subcontracted - refer to subcontractor report for accreditation status.					ESA1	ESA2	ESA1	ESA2	ES	ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			27	30	23	23	21	21
Soil Organic Matter (SOM)	<0.35 %	TM132			11.6	12.6	7.93	7.67	15.4	8.83
pH	1 pH Units	TM133			7.53	7.53	7.82	7.72	7.42	7.58
PFBA (375-22-4)	<0.5 µg/kg	TM440			0.926	1.76	<0.5	<0.5	<0.5	0.953
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	2.2	<0.5	1.13	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			22	27.1	54.6	20.8	3.22	4.98
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	0.733	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			2.09	3.38	2.18	1.42	2.37	2.68
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	POUL-SP513-C	POUL-SP513-D	POUL-SP513-D	POUL-SP513-D	POUL-SP513-E	POUL-SP513-E
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
	Depth (m)	0.50 - 0.60		0.00 - 0.10		0.20 - 0.30		0.00 - 0.60	
	Sample Type	Soil/Solid (S)		Soil/Solid (S)		Soil/Solid (S)		Process Water (PR)	
	Date Sampled	17/10/2025		17/10/2025		17/10/2025		17/10/2025	
	Sample Time								
	Date Received	17/10/2025		17/10/2025		17/10/2025		17/10/2025	
	SDG Ref	251018-49		251018-49		251018-49		251018-49	
	Lab Sample No.(s)	32311519		32311521		32311523		32311527	
	AGS Reference	ES		ESALS		ES		WS	
ES									
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002	
PFMOPrA (377-73-1)	<0.001 µg/l	TM434						<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						0.00113	
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434						0.00122	
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						0.00126	
Branched PFOS	<0.00065 µg/l	TM434						0.00194	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002	
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	POUL-SP513-C	POUL-SP513-D	POUL-SP513-D	POUL-SP513-D	POUL-SP513-E	POUL-SP513-E
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002	
PFTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01	
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434						<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001	
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434						<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01	
Total PFOS	<0.00065 µg/l	TM434						0.00321	
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001	
PFTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	17	23	22	22			24
Soil Organic Matter (SOM)	<0.35 %	TM132	1.72	15	13.5	6.5			18.4
			#	#	#	#			#
pH	1 pH Units	TM133	7.96	7.41	7.7	7.56			7.32
			M	M	M	M			M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8			<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8			<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1			<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		POUL-SP513-C	POUL-SP513-D	POUL-SP513-D	POUL-SP513-D	POUL-SP513-E	POUL-SP513-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 17/10/2025	0.00 - 0.10 Soil/Solid (S) 17/10/2025	0.20 - 0.30 Soil/Solid (S) 17/10/2025	0.40 - 0.50 Soil/Solid (S) 17/10/2025	0.00 - 0.60 Process Water (PR) 17/10/2025	0.10 - 0.20 Soil/Solid (S) 17/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					17/10/2025 251018-49 32311519 ES	17/10/2025 251018-49 32311521 ESALS	17/10/2025 251018-49 32311523 ES	17/10/2025 251018-49 32311525 ES	17/10/2025 251018-49 32311527 WS	17/10/2025 251018-49 32311531 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.72	2.35	4.17	3.46		2.54
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	1.58	1.2	<0.6		1.93
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	POUL-SP513-E	POUL-SP513-E	POUL-SP513-F	POUL-SP513-F	POUL-SP513-F	POUL-SP513-G
# ISO17025 accredited.				0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.				17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.				251018-49	251018-49	251018-49	251018-49	251018-49	251018-49
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				32311533	32311537	32311539	32311541	32311543	32311545
*** 6:2 FTAB (see appendix)				ES	ES	ES	ES	ES	ESALS
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	20	18	22	21	21	25	
Soil Organic Matter (SOM)	<0.35 %	TM132	3.09	2.12	13.5	20.5	4.36	18.1	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.17	7.44	7.5	7.54	7.61	7.34	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.86	1.71	2.26	2.52	3.47	2.85	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	2.08	0.868	<0.6	1.89	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	POUL-SP513-G	POUL-SP513-G	POUL-SP513-G			
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 17/10/2025	0.50 - 0.60 Soil/Solid (S) 17/10/2025	0.50 - 0.60 Process Water (PR) 17/10/2025			
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		POUL-SP513-G	POUL-SP513-G	POUL-SP513-G			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. *** 6:2 FTAB (see appendix) 1-4*5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30 Soil/Solid (S) 17/10/2025	0.50 - 0.60 Soil/Solid (S) 17/10/2025	0.50 - 0.60 Process Water (PR) 17/10/2025			
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024			22	21				
Soil Organic Matter (SOM)	<0.35 %	TM132			12.7	4.69				
pH	1 pH Units	TM133			7.17	7.4				
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		POUL-SP513-G	POUL-SP513-G	POUL-SP513-G			
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.50 - 0.60			
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)			
aq	Aqueous / settled sample.				17/10/2025	17/10/2025	17/10/2025			
diss.filt	Dissolved / filtered sample.				17/10/2025	17/10/2025	17/10/2025			
tot.unfilt	Total / unfiltered sample.				251018-49	251018-49	251018-49			
* Subcontracted - refer to subcontractor report for accreditation status.					32311548	32311550	32311552			
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT			
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9) (18)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.97	3.8				
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5				
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			1.48	<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5				
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4				
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5				
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8				
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6				
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6				
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6				
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7				
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5				
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5				



CERTIFICATE OF ANALYSIS

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SDG: 251018-49
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Location: Thornton Phase 3

Superseded Report:

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	
TM434	Analysis of PFAS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32311511	32311535	32311556	32311558	32311560	32311564	32311566	32311568	32311513	32311570
	POUL-SP513-A	POUL-SP513-A	POUL-SP513-A	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S2	POUL-SP513-B-S2
	ES	ESALS	ES	ES	WT	ES	ESA1	ESA2	ESA2	ESA1
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	27-Oct-2025	29-Oct-2025	27-Oct-2025	27-Oct-2025		29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	27-Oct-2025
PFAS Liquids (Full Suite)					23-Oct-2025					
pH	24-Oct-2025	24-Oct-2025	22-Oct-2025	22-Oct-2025		22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025
Sample description	22-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025		21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025
Total Organic Carbon	27-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025		28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32311515	32311517	32311519	32311521	32311523	32311525	32311527	32311531	32311533	32311537
	POUL-SP513-C	POUL-SP513-C	POUL-SP513-C	POUL-SP513-D	POUL-SP513-D	POUL-SP513-D	POUL-SP513-E	POUL-SP513-E	POUL-SP513-E	POUL-SP513-E
	ES	ES	ES	ESALS	ES	ES	WS	ES	ES	ES
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	27-Oct-2025	29-Oct-2025	27-Oct-2025	27-Oct-2025	29-Oct-2025	27-Oct-2025		29-Oct-2025	27-Oct-2025	29-Oct-2025
PFAS Liquids (Full Suite)							24-Oct-2025			
pH	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025		24-Oct-2025	22-Oct-2025	22-Oct-2025
Sample description	21-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025	21-Oct-2025		22-Oct-2025	21-Oct-2025	22-Oct-2025
Total Organic Carbon	28-Oct-2025	29-Oct-2025	28-Oct-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025		27-Oct-2025	28-Oct-2025	27-Oct-2025

Lab Sample No(s) Customer Sample Ref.	32311539	32311541	32311543	32311545	32311548	32311550	32311552
	POUL-SP513-F	POUL-SP513-F	POUL-SP513-F	POUL-SP513-G	POUL-SP513-G	POUL-SP513-G	POUL-SP513-G
	ES	ES	ES	ESALS	ES	ES	WT
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	29-Oct-2025	
PFAS Liquids (Full Suite)							23-Oct-2025
pH	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	22-Oct-2025	
Sample description	21-Oct-2025	21-Oct-2025	21-Oct-2025	22-Oct-2025	21-Oct-2025	21-Oct-2025	
Total Organic Carbon	28-Oct-2025	27-Oct-2025	29-Oct-2025	27-Oct-2025	28-Oct-2025	27-Oct-2025	



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Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3224	QC 3274	QC 3234	QC 3254	QC 3208
10:2 FTS (Raw)	TM440	103.37 53.10 : 140.00	92.09 53.10 : 140.00	125.07 53.10 : 140.00	116.75 53.10 : 140.00	124.52 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	109.09 53.56 : 141.19	100.53 53.56 : 141.19	102.61 53.56 : 141.19	92.79 53.56 : 141.19	118.61 53.56 : 141.19
3:3 FTCA (Raw)	TM440	88.03 50.54 : 133.25	91.19 50.54 : 133.25	80.16 50.54 : 133.25	90.71 50.54 : 133.25	108.83 50.54 : 133.25
4:2 FTS (Raw)	TM440	102.1 56.34 : 145.91	94.3 56.34 : 145.91	92.72 56.34 : 145.91	117.47 56.34 : 145.91	127.83 56.34 : 145.91
5:3 FTCA (Raw)	TM440	99.04 52.66 : 130.08	93.1 52.66 : 130.08	94.64 52.66 : 130.08	97.65 52.66 : 130.08	116.95 52.66 : 130.08
6:2 FTAB (Raw)	TM440	36.93 38.50 : 101.50	36.69 38.50 : 101.50	36.71 38.50 : 101.50	36.05 38.50 : 101.50	49.16 38.50 : 101.50
6:2 FTS (Raw)	TM440	97.71 54.79 : 144.46	100.65 54.79 : 144.46	91.38 54.79 : 144.46	126.52 54.79 : 144.46	129.55 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.44 48.60 : 128.14	95.51 48.60 : 128.14	108.44 48.60 : 128.14	90.31 48.60 : 128.14	126.42 48.60 : 128.14
8:2 diPAP (Raw)	TM440	92.21 56.03 : 147.72	86.76 56.03 : 147.72	85.36 56.03 : 147.72	93.0 56.03 : 147.72	129.38 56.03 : 147.72
8:2 FTS (Raw)	TM440	93.0 55.74 : 146.96	88.77 55.74 : 146.96	79.48 55.74 : 146.96	112.62 55.74 : 146.96	132.76 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	98.86 54.59 : 143.91	95.11 54.59 : 143.91	96.85 54.59 : 143.91	89.37 54.59 : 143.91	122.27 54.59 : 143.91
ADONA (Raw)	TM440	101.59 54.01 : 132.33	86.78 54.01 : 132.33	87.82 54.01 : 132.33	101.63 54.01 : 132.33	124.15 54.01 : 132.33
Branched PFOS (Raw)	TM440	101.0 54.09 : 142.61	97.4 54.09 : 142.61	92.93 54.09 : 142.61	100.51 54.09 : 142.61	127.15 54.09 : 142.61
EtFOSAA (Raw)	TM440	102.98 52.48 : 138.36	82.84 52.48 : 138.36	87.66 52.48 : 138.36	95.47 52.48 : 138.36	126.82 52.48 : 138.36
EtFOSE (Raw)	TM440	102.53 57.05 : 145.29	96.51 57.05 : 145.29	89.29 57.05 : 145.29	113.87 57.05 : 145.29	125.82 57.05 : 145.29
FBSA (Raw)	TM440	96.9 49.51 : 125.13	67.99 49.51 : 125.13	60.11 49.51 : 125.13	92.31 49.51 : 125.13	123.86 49.51 : 125.13
FHxSA (Raw)	TM440	102.54 50.38 : 132.82	89.84 50.38 : 132.82	94.15 50.38 : 132.82	100.5 50.38 : 132.82	130.36 50.38 : 132.82
HFPO-DA (Raw)	TM440	100.56 53.47 : 140.98	88.59 53.47 : 140.98	89.38 53.47 : 140.98	111.54 53.47 : 140.98	121.45 53.47 : 140.98
HFPO-TA (Raw)	TM440	106.4 54.77 : 144.39	92.1 54.77 : 144.39	93.16 54.77 : 144.39	117.18 54.77 : 144.39	124.72 54.77 : 144.39
L-PFOS (Raw)	TM440	101.0 54.09 : 142.61	97.4 54.09 : 142.61	92.93 54.09 : 142.61	100.51 54.09 : 142.61	127.15 54.09 : 142.61
MeFOSAA (Raw)	TM440	103.54 53.02 : 139.78	94.34 53.02 : 139.78	83.7 53.02 : 139.78	102.0 53.02 : 139.78	136.1 53.02 : 139.78
MeFOSE (Raw)	TM440	101.18 54.99 : 144.97	94.56 54.99 : 144.97	86.86 54.99 : 144.97	117.03 54.99 : 144.97	131.99 54.99 : 144.97
N-EtFOSA (Raw)	TM440	103.82 59.56 : 132.93	88.09 59.56 : 132.93	88.94 59.56 : 132.93	109.98 59.56 : 132.93	119.98 59.56 : 132.93
NFDHA (Raw)	TM440	104.6 57.35 : 151.20	93.08 57.35 : 151.20	89.64 57.35 : 151.20	96.58 57.35 : 151.20	121.51 57.35 : 151.20
N-MeFOSA (Raw)	TM440	105.18 59.19 : 133.01	99.68 59.19 : 133.01	87.69 59.19 : 133.01	97.67 59.19 : 133.01	125.75 59.19 : 133.01
PFBA (Raw)	TM440	104.74 52.69 : 138.91	98.0 52.69 : 138.91	88.72 52.69 : 138.91	108.9 52.69 : 138.91	126.64 52.69 : 138.91



CERTIFICATE OF ANALYSIS

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SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

		QC 3224	QC 3274	QC 3234	QC 3254	QC 3208
PFBS (Raw)	TM440	104.24 53.31 : 140.54	97.91 53.31 : 140.54	99.01 53.31 : 140.54	104.1 53.31 : 140.54	120.57 53.31 : 140.54
PFDA (Raw)	TM440	105.55 53.39 : 140.76	92.59 53.39 : 140.76	83.98 53.39 : 140.76	111.9 53.39 : 140.76	126.06 53.39 : 140.76
PFDoA (Raw)	TM440	105.71 52.85 : 139.34	89.58 52.85 : 139.34	90.57 52.85 : 139.34	114.79 52.85 : 139.34	128.55 52.85 : 139.34
PFDoS (Raw)	TM440	107.03 55.29 : 145.76	97.4 55.29 : 145.76	100.88 55.29 : 145.76	89.8 55.29 : 145.76	120.29 55.29 : 145.76
PFDS (Raw)	TM440	107.51 52.94 : 139.56	96.02 52.94 : 139.56	99.67 52.94 : 139.56	90.69 52.94 : 139.56	115.51 52.94 : 139.56
PFecHS (Raw)	TM440	96.99 50.75 : 133.80	85.51 50.75 : 133.80	78.51 50.75 : 133.80	112.45 50.75 : 133.80	123.62 50.75 : 133.80
PFEESA (Raw)	TM440	97.61 50.87 : 134.12	93.5 50.87 : 134.12	92.43 50.87 : 134.12	98.7 50.87 : 134.12	114.21 50.87 : 134.12
PFHpA (Raw)	TM440	104.61 52.61 : 138.69	98.83 52.61 : 138.69	94.01 52.61 : 138.69	109.25 52.61 : 138.69	132.4 52.61 : 138.69
PFHpS (Raw)	TM440	95.08 55.29 : 145.76	98.06 55.29 : 145.76	91.28 55.29 : 145.76	93.58 55.29 : 145.76	117.83 55.29 : 145.76
PFHxA (Raw)	TM440	105.93 54.05 : 142.50	96.09 54.05 : 142.50	89.49 54.05 : 142.50	109.31 54.05 : 142.50	134.08 54.05 : 142.50
PFHxDA (Raw)	TM440	99.12 52.03 : 137.17	89.75 52.03 : 137.17	87.42 52.03 : 137.17	99.63 52.03 : 137.17	130.25 52.03 : 137.17
PFHxS (Raw)	TM440	106.06 53.56 : 141.19	80.48 53.56 : 141.19	77.46 53.56 : 141.19	117.41 53.56 : 141.19	118.98 53.56 : 141.19
PFMOBA (Raw)	TM440	97.68 52.73 : 139.02	99.38 52.73 : 139.02	88.34 52.73 : 139.02	87.09 52.73 : 139.02	120.21 52.73 : 139.02
PFMOPra (Raw)	TM440	97.51 52.57 : 138.58	59.52 52.57 : 138.58	80.44 52.57 : 138.58	93.95 52.57 : 138.58	114.81 52.57 : 138.58
PFNA (Raw)	TM440	103.84 52.94 : 139.56	99.86 52.94 : 139.56	89.83 52.94 : 139.56	105.46 52.94 : 139.56	124.57 52.94 : 139.56
PFNS (Raw)	TM440	102.12 54.38 : 143.37	102.95 54.38 : 143.37	98.46 54.38 : 143.37	94.36 54.38 : 143.37	122.62 54.38 : 143.37
PFOA (Raw)	TM440	100.52 53.80 : 141.85	91.85 53.80 : 141.85	86.63 53.80 : 141.85	107.45 53.80 : 141.85	137.6 53.80 : 141.85
PFODA (Raw)	TM440	91.38 56.03 : 147.72	84.13 56.03 : 147.72	76.21 56.03 : 147.72	88.69 56.03 : 147.72	116.52 56.03 : 147.72
PFOSA (Raw)	TM440	93.6 53.10 : 140.00	90.82 53.10 : 140.00	85.07 53.10 : 140.00	107.38 53.10 : 140.00	120.49 53.10 : 140.00
PFPA (Raw)	TM440	109.85 53.89 : 142.06	102.26 53.89 : 142.06	94.16 53.89 : 142.06	107.59 53.89 : 142.06	129.27 53.89 : 142.06
PFPeS (Raw)	TM440	107.41 54.30 : 143.15	87.7 54.30 : 143.15	83.02 54.30 : 143.15	121.19 54.30 : 143.15	120.73 54.30 : 143.15
PFTeA (Raw)	TM440	110.42 53.06 : 139.89	100.02 53.06 : 139.89	89.87 53.06 : 139.89	120.49 53.06 : 139.89	132.18 53.06 : 139.89
PFTrDA (Raw)	TM440	108.19 51.70 : 136.30	100.01 51.70 : 136.30	92.12 51.70 : 136.30	118.4 51.70 : 136.30	134.82 51.70 : 136.30
PFTrDS (Raw)	TM440	105.67 56.24 : 148.26	101.39 56.24 : 148.26	101.49 56.24 : 148.26	94.19 56.24 : 148.26	115.18 56.24 : 148.26
PFUnA (Raw)	TM440	107.81 53.35 : 140.65	100.4 53.35 : 140.65	95.49 53.35 : 140.65	106.05 53.35 : 140.65	133.65 53.35 : 140.65
PFUnDS (Raw)	TM440	108.41 53.60 : 141.30	100.58 53.60 : 141.30	106.99 53.60 : 141.30	94.16 53.60 : 141.30	120.74 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3245	QC 3288
11CI-PF3OUdS (763051-92-9)	TM434	99.22 71.39 : 130.11	101.14 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	92.16 53.44 : 140.89	109.74 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	102.97 80.71 : 134.26	95.7 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	122.2 64.44 : 139.44	88.03 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	110.19 58.31 : 142.44	95.36 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	102.86 73.93 : 134.90	93.15 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	123.69 61.23 : 140.88	100.59 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	94.79 82.68 : 128.35	96.3 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	92.65 69.20 : 147.13	102.18 71.98 : 136.03
ADONA (919005-14-4)	TM434	96.63 73.23 : 135.10	101.34 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	98.61 72.95 : 133.93	89.27 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	116.39 67.47 : 136.89	109.74 67.92 : 135.38
FBSA (30334-69-1)	TM434	127.46 63.70 : 143.28	101.35 58.08 : 137.20
FHxSA (41997-13-1)	TM434	122.74 63.00 : 139.73	101.19 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	99.91 67.58 : 142.95	108.02 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	101.91 69.04 : 147.42	110.2 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	97.61 70.63 : 141.88	99.74 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	101.7 75.64 : 130.69	93.88 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	116.93 72.41 : 131.62	105.82 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	147.16 57.83 : 132.08	103.16 59.26 : 122.86
NFDHA (151772-58-6)	TM434	97.83 57.60 : 134.40	94.43 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	157.59 61.69 : 135.49	98.3 62.71 : 118.96
PFBA (375-22-4)	TM434	101.58 74.68 : 133.63	95.62 67.84 : 130.39
PFBS (375-73-5)	TM434	95.93 74.09 : 133.79	100.5 90.25 : 126.25
PFDA (335-76-2)	TM434	102.28 72.39 : 135.76	93.39 68.94 : 132.99
PFDaA (307-55-1)	TM434	99.95 58.06 : 148.21	92.66 66.19 : 135.04
PFDoS (79780-39-5)	TM434	93.0 74.76 : 130.94	103.91 65.90 : 146.45



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

		QC 3245	QC 3288
PFDS (335-77-3)	TM434	105.56 58.61 : 140.44	100.9 64.84 : 138.49
PFEESA (113507-82-7)	TM434	97.41 62.25 : 138.08	100.25 67.24 : 129.19
PFHpA (375-85-9)	TM434	97.41 75.71 : 136.46	103.73 72.89 : 141.36
PFHpS (375-92-8)	TM434	92.0 76.13 : 132.38	103.48 72.19 : 155.36
PFHxA (307-24-4)	TM434	99.39 78.16 : 133.89	95.26 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	100.46 71.24 : 136.49	100.34 89.96 : 128.14
PFHxS (355-46-4)	TM434	101.75 73.25 : 135.20	105.96 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	87.06 76.41 : 130.26	100.87 84.99 : 139.74
PFMOPra (377-73-1)	TM434	98.97 65.74 : 128.74	101.61 80.40 : 136.73
PFNA (375-95-1)	TM434	103.33 75.01 : 133.06	92.2 68.61 : 128.99
PFNS (68259-12-1)	TM434	106.64 74.74 : 129.26	120.26 70.70 : 130.93
PFOA (335-67-1)	TM434	99.86 74.76 : 136.11	105.1 74.09 : 143.61
PFODA (16517-11-6)	TM434	100.83 53.58 : 141.25	94.52 68.70 : 175.88
PFOSA (754-91-6)	TM434	98.38 76.54 : 135.04	95.3 67.59 : 130.51
PFPA (2706-90-3)	TM434	101.29 77.89 : 134.66	113.18 74.20 : 140.58
PFPeS (2706-91-4)	TM434	97.42 69.49 : 132.71	108.83 76.19 : 137.91
PFTeA (376-06-7)	TM434	100.82 61.66 : 143.71	99.56 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	99.05 67.04 : 136.04	98.49 71.98 : 130.25
PFUnA (2058-94-8)	TM434	99.92 70.21 : 138.54	92.54 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	100.32 71.45 : 127.25	100.87 85.84 : 139.76

pH

Component	Method Code	QC 3211	QC 3286	QC 3213	QC 3207
pH	TM133	101.36 94.00 : 105.06	102.21 94.00 : 105.06	101.88 94.00 : 105.06	101.75 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

SDG: 251018-49
Client Ref.: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3252	QC 3230	QC 3266	QC 3215	QC 3221	QC 3234
Total Organic Carbon	TM132	97.31 93.61 : 106.00	95.13 93.61 : 106.00	97.17 93.61 : 106.00	96.6 93.61 : 106.00	97.26 93.61 : 106.00	96.18 93.61 : 106.00

Component	Method Code	QC 3247
Total Organic Carbon	TM132	94.58 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251018-49
Client Ref: UK-70100310

Report Number: 781598
Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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email: hawardencustomerservices@alsglobal.com
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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	04 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251023-65
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	782044
Order Number:	UK-70100310

We received 47 samples on Thursday October 23, 2025 and 47 of these samples were scheduled for analysis which was completed on Tuesday November 04, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32337586	GR03-SP328-A	ES	0.10 - 0.20	21/10/2025
32337610	GR03-SP328-A	WT	0.10 - 0.20	21/10/2025
32337634	GR03-SP328-A	ES	0.30 - 0.40	21/10/2025
32337663	GR03-SP328-A	ES	0.50 - 0.60	21/10/2025
32337628	GR04-SP421-A	ES	0.00 - 0.10	21/10/2025
32337630	GR04-SP421-A	ES	0.20 - 0.30	21/10/2025
32337632	GR04-SP421-A	ES	0.40 - 0.50	21/10/2025
32337655	GR04-SP426-A	ES	0.10 - 0.20	21/10/2025
32337657	GR04-SP426-A	WT	0.10 - 0.20	21/10/2025
32337661	GR04-SP426-A	ES	0.20 - 0.30	21/10/2025
32337665	GR04-SP426-A	ES	0.50 - 0.60	21/10/2025
32337683	GR03-SP328-B	ESALS	0.00 - 0.10	21/10/2025
32337685	GR03-SP328-B	ES	0.30 - 0.40	21/10/2025
32337687	GR03-SP328-B	ES	0.40 - 0.50	21/10/2025
32337637	GR04-SP421-B	ES	0.10 - 0.20	21/10/2025
32337641	GR04-SP421-B	ES	0.30 - 0.40	21/10/2025
32337643	GR04-SP421-B	ESALS	0.50 - 0.60	21/10/2025
32337667	GR04-SP426-B	ES	0.00 - 0.10	21/10/2025
32337669	GR04-SP426-B	WS	0.00 - 0.50	21/10/2025
32337673	GR04-SP426-B	ES	0.20 - 0.30	21/10/2025
32337675	GR04-SP426-B	ESALS	0.40 - 0.50	21/10/2025
32337689	GR03-SP328-C	ES	0.10 - 0.20	21/10/2025
32337691	GR03-SP328-C	ES	0.20 - 0.30	21/10/2025
32337588	GR03-SP328-C	ESALS	0.50 - 0.60	21/10/2025
32337645	GR04-SP421-C	ES	0.00 - 0.10	21/10/2025
32337647	GR04-SP421-C	WS	0.00 - 0.50	21/10/2025
32337651	GR04-SP421-C	ES	0.30 - 0.40	21/10/2025
32337653	GR04-SP421-C	ES	0.40 - 0.50	21/10/2025
32337677	GR04-SP426-C	ES	0.10 - 0.20	21/10/2025
32337679	GR04-SP426-C	ES	0.30 - 0.40	21/10/2025
32337681	GR04-SP426-C	ES	0.50 - 0.60	21/10/2025
32337590	GR03-SP328-D-S1	ESA1	0.00 - 0.10	21/10/2025
32337592	GR03-SP328-D-S1	ESA2	0.00 - 0.10	21/10/2025
32337594	GR03-SP328-D-S1	ES	0.20 - 0.30	21/10/2025
32337596	GR03-SP328-D-S1	ES	0.40 - 0.50	21/10/2025
32337598	GR03-SP328-D-S2	ESA1	0.00 - 0.10	21/10/2025
32337600	GR03-SP328-D-S2	ESA2	0.00 - 0.10	21/10/2025
32337602	GR03-SP328-E	ES	0.10 - 0.20	21/10/2025
32337604	GR03-SP328-E	WT	0.10 - 0.20	21/10/2025
32337608	GR03-SP328-E	ES	0.30 - 0.40	21/10/2025
32337614	GR03-SP328-E	ES	0.50 - 0.60	21/10/2025
32337616	GR03-SP328-F	ESALS	0.00 - 0.10	21/10/2025
32337618	GR03-SP328-F	ES	0.30 - 0.40	21/10/2025
32337620	GR03-SP328-F	ES	0.40 - 0.50	21/10/2025
32337622	GR03-SP328-G	ES	0.10 - 0.20	21/10/2025
32337624	GR03-SP328-G	ES	0.20 - 0.30	21/10/2025
32337626	GR03-SP328-G	ES	0.50 - 0.60	21/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
	32337669		GR04-SP426-B	WS	0.00 - 0.50	50ml digitube (ALE001)	PW
	32337667		GR04-SP426-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32337643		GR04-SP421-B	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32337641		GR04-SP421-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32337637		GR04-SP421-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
PFAS in soils	32337687		GR03-SP328-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32337685		GR03-SP328-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32337683		GR03-SP328-B	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32337665		GR04-SP426-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32337661		GR04-SP426-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32337657		GR04-SP426-A	WT	0.10 - 0.20	50ml digitube (ALE001)	PW
	32337655		GR04-SP426-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32337632		GR04-SP421-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32337630		GR04-SP421-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32337628		GR04-SP421-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32337663		GR03-SP328-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32337634		GR03-SP328-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32337610		GR03-SP328-A	WT	0.10 - 0.20	50ml digitube (ALE001)	PW
	32337586		GR03-SP328-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 5				X
pH		All	NDPs: 0 Tests: 42				
Sample description		All	NDPs: 0 Tests: 42				
Total Organic Carbon		All	NDPs: 0 Tests: 42				

32337608	GR03-SP328-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337604	GR03-SP328-E	WT	0.10 - 0.20	50ml digitube (ALE001)	PW		X				
32337602	GR03-SP328-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337600	GR03-SP328-D-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337598	GR03-SP328-D-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337596	GR03-SP328-D-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337594	GR03-SP328-D-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337592	GR03-SP328-D-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337590	GR03-SP328-D-S1	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337681	GR04-SPA26-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337679	GR04-SPA26-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337677	GR04-SPA26-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337653	GR04-SPA21-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337651	GR04-SPA21-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337647	GR04-SPA21-C	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X				
32337645	GR04-SPA21-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337588	GR03-SP328-C	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337691	GR03-SP328-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337689	GR03-SP328-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337675	GR04-SPA26-B	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32337673	GR04-SPA26-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend

- X** Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

	Lab Sample No(s)		32337614	32337616	32337618	32337620	32337622	32337624	32337626
	Customer Sample Reference		GR03-SP328-E	GR03-SP328-F	GR03-SP328-F	GR03-SP328-F	GR03-SP328-G	GR03-SP328-G	GR03-SP328-G
	AGS Reference		ES	ESALS	ES	ES	ES	ES	ES
	Depth (m)		0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Container		1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)
	Sample Type		S	S	S	S	S	S	S
PFAS in soils	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine <0.063mm **fine** 0.063mm - 0.1mm **medium** 0.1mm - 2mm **coarse** 2mm - 10mm **very coarse** >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32337586	GR03-SP328-A	0.10 - 0.20	Dark Brown	Sandy Loam	Vegetation	Stones
32337634	GR03-SP328-A	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	None
32337663	GR03-SP328-A	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	None
32337628	GR04-SP421-A	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32337630	GR04-SP421-A	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32337632	GR04-SP421-A	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	None
32337655	GR04-SP426-A	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Plastic
32337661	GR04-SP426-A	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32337665	GR04-SP426-A	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	Plastic
32337683	GR03-SP328-B	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32337685	GR03-SP328-B	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	None
32337687	GR03-SP328-B	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32337637	GR04-SP421-B	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32337641	GR04-SP421-B	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	Stones
32337643	GR04-SP421-B	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32337667	GR04-SP426-B	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337673	GR04-SP426-B	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32337675	GR04-SP426-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32337588	GR03-SP328-C	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337689	GR03-SP328-C	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337691	GR03-SP328-C	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337645	GR04-SP421-C	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32337651	GR04-SP421-C	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337653	GR04-SP421-C	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32337677	GR04-SP426-C	0.10 - 0.20	Dark Brown	Silt Loam	Stones	Vegetation
32337679	GR04-SP426-C	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32337681	GR04-SP426-C	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32337590	GR03-SP328-D-S1	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337592	GR03-SP328-D-S1	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32337594	GR03-SP328-D-S1	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32337596	GR03-SP328-D-S1	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	None
32337598	GR03-SP328-D-S2	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	None
32337600	GR03-SP328-D-S2	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337602	GR03-SP328-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337608	GR03-SP328-E	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337614	GR03-SP328-E	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	None
32337616	GR03-SP328-F	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32337618	GR03-SP328-F	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32337620	GR03-SP328-F	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32337622	GR03-SP328-G	0.10 - 0.20	Dark Brown	Clay Loam	Vegetation	None
32337624	GR03-SP328-G	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32337626	GR03-SP328-G	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR04-SP421-A	GR04-SP421-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
* Subcontracted - refer to subcontractor report for accreditation status.					32337586	32337610	32337634	32337663	32337628	32337630
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434				0.00329				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434				0.00311				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434				0.000921				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR04-SP421-A	GR04-SP421-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
* Subcontracted - refer to subcontractor report for accreditation status.					32337586	32337610	32337634	32337663	32337628	32337630
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
PFechS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			27		19	16	21	20
Soil Organic Matter (SOM)	<0.35 %	TM132			4.03		1.76	0.753	4.83	3.88
pH	1 pH Units	TM133			5.69		6.38	6.81	7.77	7.81
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR04-SP421-A	GR04-SP421-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20 Soil/Solid (S) 21/10/2025	0.10 - 0.20 Process Water (PR) 21/10/2025	0.30 - 0.40 Soil/Solid (S) 21/10/2025	0.50 - 0.60 Soil/Solid (S) 21/10/2025	0.00 - 0.10 Soil/Solid (S) 21/10/2025	0.20 - 0.30 Soil/Solid (S) 21/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
*** 6:2 FTAB (see appendix)					32337586	32337610	32337634	32337663	32337628	32337630
1-4* @ Sample deviation (see appendix)					ES	WT	ES	ES	ES	ES
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	0.754	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.39		5.92	4.67	1.44	0.897
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	1.91	0.955
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

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SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP421-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A	GR03-SP328-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
* Subcontracted - refer to subcontractor report for accreditation status.					32337632	32337655	32337657	32337661	32337665	32337683
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					0.00357			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					0.00309			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP421-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A	GR03-SP328-B
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*@\$	Sample deviation (see appendix)								
		Depth (m)	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
		Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	
		Sample Time							
		Date Received	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	
		SDG Ref	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	
		Lab Sample No.(s)	32337632	32337655	32337657	32337661	32337665	32337683	
		AGS Reference	ES	ES	WT	ES	ES	ESALS	
Component	LOD/Units	Method							
PFDaA (307-55-1)	<0.002 µg/l	TM434				<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002			
PFTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01			
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434				<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001			
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434				<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01			
Total PFOS	<0.00065 µg/l	TM434				<0.00065			
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001			
PFTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	18	22		18	17	26	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.42	5.55		12.6	0.907	4.29	
pH	1 pH Units	TM133	7.61	7.34		7.48	7.83	6.1	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP421-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A	GR03-SP328-B
#	ISO17025 accredited.		Depth (m)		0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
m	mCERTS accredited.		Sample Type		Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		Date Sampled		21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.		Sample Time							
tot.unfilt	Total / unfiltered sample.		Date Received		23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
*	Subcontracted - refer to subcontractor report for accreditation status.		SDG Ref		251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)		32337632	32337655	32337657	32337661	32337665	32337683
***	6:2 FTAB (see appendix)		AGS Reference		ES	ES	WT	ES	ES	ESALS
1-4**@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	0.853		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.16	3.62		3.18	1.08	4.36
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP328-B	GR03-SP328-B	GR04-SP421-B	GR04-SP421-B	GR04-SP421-B	GR04-SP426-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
Subcontracted - refer to subcontractor report for accreditation status.					32337685	32337687	32337637	32337641	32337643	32337667
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESALS	ES
*** 6.2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			22	15	23	19	18	25
Soil Organic Matter (SOM)	<0.35 %	TM132			2.91	0.588	6.24	3.43	1.93	5
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.67	6.94	7.82	7.89	8.05	6.58
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.656	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.25	3.42	1.61	1.41	0.926	3.8
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	2	1.03	<0.6	0.816
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP426-B	GR04-SP426-B	GR04-SP426-B	GR03-SP328-C	GR03-SP328-C	GR03-SP328-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50 Process Water (PR) 21/10/2025	0.20 - 0.30 Soil/Solid (S) 21/10/2025	0.40 - 0.50 Soil/Solid (S) 21/10/2025	0.10 - 0.20 Soil/Solid (S) 21/10/2025	0.20 - 0.30 Soil/Solid (S) 21/10/2025	0.50 - 0.60 Soil/Solid (S) 21/10/2025	
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**\$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002						
PFMOPra (377-73-1)	<0.001 µg/l	TM434		<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434		<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434		<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		<0.00065						
Branched PFOS	<0.00065 µg/l	TM434		<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP426-B	GR04-SP426-B	GR04-SP426-B	GR03-SP328-C	GR03-SP328-C	GR03-SP328-C
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50 Process Water (PR) 21/10/2025	0.20 - 0.30 Soil/Solid (S) 21/10/2025	0.40 - 0.50 Soil/Solid (S) 21/10/2025	0.10 - 0.20 Soil/Solid (S) 21/10/2025	0.20 - 0.30 Soil/Solid (S) 21/10/2025	0.50 - 0.60 Soil/Solid (S) 21/10/2025	
M	mCERTS accredited.		23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	
aq	Aqueous / settled sample.		251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	
diss.filt	Dissolved / filtered sample.		32337669	32337673	32337675	32337689	32337691	32337588	
tot.unfilt	Total / unfiltered sample.		WS	ES	ESALS	ES	ES	ESALS	
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@Sample deviation (see appendix)								
Component	LOD/Units		Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002						
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002						
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003						
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002						
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002						
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001						
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002						
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002						
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001						
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01						
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434	<0.001						
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01						
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001						
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434	<0.001						
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01						
Total PFOS	<0.00065 µg/l	TM434	<0.00065						
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001						
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001						
Moisture Content Ratio (% of as received sample)	%	PM024		18	20	19	20	17	
Soil Organic Matter (SOM)	<0.35 %	TM132		2.6	2.24	2.65	2.59	0.984	
pH	1 pH Units	TM133		7.6	7.51	5.87	6.23	6.64	
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP426-B	GR04-SP426-B	GR04-SP426-B	GR03-SP328-C	GR03-SP328-C	GR03-SP328-C
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@Sample deviation (see appendix)			23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	
			251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	
			32337669	32337673	32337675	32337689	32337691	32337588	
			WS	ES	ESALS	ES	ES	ESALS	
Component	LOD/Units	Method							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.18	1.76	2.41	3.75	2.75
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP426-C	GR04-SP426-C
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
M mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
* Subcontracted - refer to subcontractor report for accreditation status.				32337645	32337647	32337651	32337653	32337677	32337679
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434			<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434			0.00416				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434			0.00555				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434			0.00144				
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434			0.00191				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP426-C	GR04-SP426-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
* Subcontracted - refer to subcontractor report for accreditation status.					32337645	32337647	32337651	32337653	32337677	32337679
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
PFechS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			17		19	20	25	18
Soil Organic Matter (SOM)	<0.35 %	TM132			4.19		8.76	2.6	6	11
pH	1 pH Units	TM133			7.8		8.13	7.81	7.09	7.3
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			0.759		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP426-C	GR04-SP426-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10 Soil/Solid (S) 21/10/2025	0.00 - 0.50 Process Water (PR) 21/10/2025	0.30 - 0.40 Soil/Solid (S) 21/10/2025	0.40 - 0.50 Soil/Solid (S) 21/10/2025	0.10 - 0.20 Soil/Solid (S) 21/10/2025	0.30 - 0.40 Soil/Solid (S) 21/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
*** 6:2 FTAB (see appendix)					32337645	32337647	32337651	32337653	32337677	32337679
1-4* @ Sample deviation (see appendix)					ES	WS	ES	ES	ES	ES
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			0.91		2.36	1.66	3.75	4.57
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			0.931		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP426-C	GR03-SP328-D-S1	GR03-SP328-D-S1	GR03-SP328-D-S1	GR03-SP328-D-S1	GR03-SP328-D-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
Subcontracted - refer to subcontractor report for accreditation status.					32337681	32337590	32337592	32337594	32337596	32337598
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESA1	ESA2	ES	ES	ESA1
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			18	34	33	24	16	28
Soil Organic Matter (SOM)	<0.35 %	TM132			1.84	6	5.72	4.72	1.41	5.21
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.51	6.2	6.12	7.13	7.54	6.48
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.62	3.08	3.33	4.46	4.67	3.16
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	0.919	0.908	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.						
#	ISO17025 accredited.			GR03-SP328-D-S2	GR03-SP328-E	GR03-SP328-E	GR03-SP328-E	GR03-SP328-E	GR03-SP328-F
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.			Depth (m)	0.00 - 0.10	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
*** 6:2 FTAB (see appendix)			Date Sampled	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
1-4*§@ Sample deviation (see appendix)			Sample Time						
			Date Received	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
			SDG Ref	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
			Lab Sample No.(s)	32337600	32337602	32337604	32337608	32337614	32337616
			AGS Reference	ESA2	ES	WT	ES	ES	ESALS
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				0.00442			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				0.00825			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				0.00162			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				0.00226			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9Cl-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP328-D-S2	GR03-SP328-E	GR03-SP328-E	GR03-SP328-E	GR03-SP328-E	GR03-SP328-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
diss.filt	Dissolved / filtered sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
tot.unfilt	Total / unfiltered sample.				251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
* Subcontracted - refer to subcontractor report for accreditation status.					32337600	32337602	32337604	32337608	32337614	32337616
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	27	22			17	19	29	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.76	6.03			1.6	1.81	9.05	
pH	1 pH Units	TM133	6.22	6.72			7.44	7.61	6.86	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8			<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	1.09	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8			<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1			<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP328-D-S2		GR03-SP328-E		GR03-SP328-E		GR03-SP328-E		GR03-SP328-E		GR03-SP328-F	
#	ISO17025 accredited.	m													
aq	Aqueous / settled sample.														
diss.filt	Dissolved / filtered sample.														
tot.unfilt	Total / unfiltered sample.														
*	Subcontracted - refer to subcontractor report for accreditation status.														
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery														
***	6:2 FTAB (see appendix)														
1-4**	Sample deviation (see appendix)														
			Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference					
Component	LOD/Units	Method													
PFPeS (2706-91-4)	<0.5 µg/kg	TM440													
ADONA (919005-14-4)	<0.5 µg/kg	TM440													
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440													
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440													
PFOA (335-67-1)	<0.5 µg/kg	TM440													
PFHxS (355-46-4)	<0.5 µg/kg	TM440													
FBSA (30334-69-1)	<0.5 µg/kg	TM440													
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440													
PFNA (375-95-1)	<0.5 µg/kg	TM440													
PFecHS (133201-07-7)	<0.5 µg/kg	TM440													
PFHpS (375-92-8)	<0.6 µg/kg	TM440													
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440													
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440													
PFDA (335-76-2)	<0.5 µg/kg	TM440													
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440													
Branched PFOS	<0.6 µg/kg	TM440													
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440													
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440													
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440													
PFUnA (2058-94-8)	<0.5 µg/kg	TM440													
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440													
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440													
FHxSA (41997-13-1)	<0.5 µg/kg	TM440													
PFNS (68259-12-1)	<0.5 µg/kg	TM440													
PFDoA (307-55-1)	<0.6 µg/kg	TM440													
PFDS (335-77-3)	<0.6 µg/kg	TM440													
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440													
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440													
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440													
PFTeA (376-06-7)	<0.5 µg/kg	TM440													
PFOSA (754-91-6)	<0.5 µg/kg	TM440													
PFDoS (79780-39-5)	<0.5 µg/kg	TM440													
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440													



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SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP328-F	GR03-SP328-F	GR03-SP328-G	GR03-SP328-G	GR03-SP328-G	
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	M mCERTS accredited.	0.30 - 0.40 Soil/Solid (S) 21/10/2025	0.40 - 0.50 Soil/Solid (S) 21/10/2025	0.10 - 0.20 Soil/Solid (S) 21/10/2025	0.20 - 0.30 Soil/Solid (S) 21/10/2025	0.50 - 0.60 Soil/Solid (S) 21/10/2025			
aq Aqueous / settled sample.		diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.		* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		*** 6.2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024	14	20	25	22	21			
Soil Organic Matter (SOM)	<0.35 %	TM132	3.6	1.98	4.88	7.6	1.86			
pH	1 pH Units	TM133	7.99	8.07	6.22	6.83	7.53			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	0.661	<0.5	<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.1	4.08	3.71	2.71	5.63			
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65

Report Number: 782044

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	
TM434	Analysis of PFAS

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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SDG: 251023-65
Client Ref.: UK-70100310

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Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32337586	32337610	32337634	32337663	32337628	32337630	32337632	32337655	32337657	32337661
	GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR03-SP328-A	GR04-SP421-A	GR04-SP421-A	GR04-SP421-A	GR04-SP426-A	GR04-SP426-A	GR04-SP426-A
	ES	WT	ES	ES	ES	ES	ES	ES	WT	ES
	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30
	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	30-Oct-2025		30-Oct-2025	31-Oct-2025	30-Oct-2025	31-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025
PFAS Liquids (Full Suite)		03-Nov-2025							03-Nov-2025	
pH	26-Oct-2025		30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025
Sample description	24-Oct-2025		27-Oct-2025	27-Oct-2025	24-Oct-2025	27-Oct-2025	27-Oct-2025	25-Oct-2025		25-Oct-2025
Total Organic Carbon	03-Nov-2025		04-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025		04-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32337665	32337683	32337685	32337687	32337637	32337641	32337643	32337667	32337669	32337673
	GR04-SP426-A	GR03-SP328-B	GR03-SP328-B	GR03-SP328-B	GR04-SP421-B	GR04-SP421-B	GR04-SP421-B	GR04-SP426-B	GR04-SP426-B	GR04-SP426-B
	ES	ESALS	ES	ES	ES	ES	ESALS	ES	WS	ES
	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025
PFAS Liquids (Full Suite)									03-Nov-2025	
pH	30-Oct-2025	30-Oct-2025	30-Oct-2025	26-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025
Sample description	25-Oct-2025	24-Oct-2025	27-Oct-2025	24-Oct-2025	25-Oct-2025	25-Oct-2025	27-Oct-2025	25-Oct-2025		27-Oct-2025
Total Organic Carbon	04-Nov-2025	03-Nov-2025	04-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	04-Nov-2025	03-Nov-2025		04-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32337675	32337588	32337689	32337691	32337645	32337647	32337651	32337653	32337677	32337679
	GR04-SP426-B	GR03-SP328-C	GR03-SP328-C	GR03-SP328-C	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP426-C	GR04-SP426-C
	ESALS	ESALS	ES	ES	ES	WS	ES	ES	ES	ES
	0.40 - 0.50	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	30-Oct-2025	30-Oct-2025	31-Oct-2025	31-Oct-2025	30-Oct-2025		31-Oct-2025	31-Oct-2025	30-Oct-2025	30-Oct-2025
PFAS Liquids (Full Suite)						03-Nov-2025				
pH	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025	30-Oct-2025	26-Oct-2025	26-Oct-2025
Sample description	25-Oct-2025	24-Oct-2025	28-Oct-2025	28-Oct-2025	24-Oct-2025		24-Oct-2025	27-Oct-2025	24-Oct-2025	24-Oct-2025
Total Organic Carbon	03-Nov-2025	04-Nov-2025	03-Nov-2025	03-Nov-2025	04-Nov-2025		03-Nov-2025	04-Nov-2025	03-Nov-2025	04-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32337681	32337590	32337592	32337594	32337596	32337598	32337600	32337602	32337604	32337608
	GR04-SP426-C	GR03-SP328-D-S1	GR03-SP328-D-S1	GR03-SP328-D-S1	GR03-SP328-D-S1	GR03-SP328-D-S2	GR03-SP328-D-S2	GR03-SP328-E	GR03-SP328-E	GR03-SP328-E
	ES	ESA1	ESA2	ES	ES	ESA1	ESA2	ES	WT	ES
	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	31-Oct-2025	30-Oct-2025	30-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	30-Oct-2025		30-Oct-2025
PFAS Liquids (Full Suite)									03-Nov-2025	
pH	26-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025
Sample description	24-Oct-2025	24-Oct-2025	25-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	28-Oct-2025	24-Oct-2025		24-Oct-2025
Total Organic Carbon	04-Nov-2025	04-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	04-Nov-2025	04-Nov-2025	03-Nov-2025		03-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32337614	32337616	32337618	32337620	32337622	32337624	32337626			
	GR03-SP328-E	GR03-SP328-F	GR03-SP328-F	GR03-SP328-F	GR03-SP328-G	GR03-SP328-G	GR03-SP328-G			
	ES	ESALS	ES	ES	ES	ES	ES			
	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60			
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
PFAS in soils	31-Oct-2025	30-Oct-2025	30-Oct-2025	31-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025			
pH	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025			
Sample description	27-Oct-2025	25-Oct-2025	25-Oct-2025	27-Oct-2025	24-Oct-2025	24-Oct-2025	27-Oct-2025			
Total Organic Carbon	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	31-Oct-2025	03-Nov-2025	03-Nov-2025			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3269	QC 3243	QC 3289
10:2 FTS (Raw)	TM440	115.77 53.10 : 140.00	119.87 53.10 : 140.00	131.47 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	96.15 53.56 : 141.19	100.82 53.56 : 141.19	103.4 53.56 : 141.19
3:3 FTCA (Raw)	TM440	94.87 50.54 : 133.25	100.43 50.54 : 133.25	83.15 50.54 : 133.25
4:2 FTS (Raw)	TM440	115.72 56.34 : 145.91	125.05 56.34 : 145.91	115.58 56.34 : 145.91
5:3 FTCA (Raw)	TM440	98.93 52.66 : 130.08	108.73 52.66 : 130.08	104.72 52.66 : 130.08
6:2 FTAB (Raw)	TM440	49.25 38.50 : 101.50	48.37 38.50 : 101.50	39.44 38.50 : 101.50
6:2 FTS (Raw)	TM440	106.78 54.79 : 144.46	109.36 54.79 : 144.46	105.68 54.79 : 144.46
7:3 FTCA (Raw)	TM440	100.79 48.60 : 128.14	101.48 48.60 : 128.14	105.13 48.60 : 128.14
8:2 diPAP (Raw)	TM440	92.53 56.03 : 147.72	112.87 56.03 : 147.72	94.46 56.03 : 147.72
8:2 FTS (Raw)	TM440	119.15 55.74 : 146.96	132.95 55.74 : 146.96	113.09 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	103.2 54.59 : 143.91	103.63 54.59 : 143.91	96.86 54.59 : 143.91
ADONA (Raw)	TM440	106.5 54.01 : 132.33	110.16 54.01 : 132.33	99.33 54.01 : 132.33
Branched PFOS (Raw)	TM440	107.51 54.09 : 142.61	111.16 54.09 : 142.61	102.16 54.09 : 142.61
EtFOSAA (Raw)	TM440	109.15 52.48 : 138.36	113.61 52.48 : 138.36	103.76 52.48 : 138.36
EtFOSE (Raw)	TM440	109.9 57.05 : 145.29	123.12 57.05 : 145.29	107.04 57.05 : 145.29
FBSA (Raw)	TM440	96.18 49.51 : 125.13	103.95 49.51 : 125.13	87.82 49.51 : 125.13
FHxSA (Raw)	TM440	101.31 50.38 : 132.82	107.61 50.38 : 132.82	97.33 50.38 : 132.82
HFPO-DA (Raw)	TM440	114.08 53.47 : 140.98	128.63 53.47 : 140.98	109.57 53.47 : 140.98
HFPO-TA (Raw)	TM440	118.09 54.77 : 144.39	130.72 54.77 : 144.39	117.02 54.77 : 144.39
L-PFOS (Raw)	TM440	107.51 54.09 : 142.61	111.16 54.09 : 142.61	102.16 54.09 : 142.61
MeFOSAA (Raw)	TM440	98.61 53.02 : 139.78	107.34 53.02 : 139.78	89.07 53.02 : 139.78
MeFOSE (Raw)	TM440	113.5 54.99 : 144.97	122.39 54.99 : 144.97	112.41 54.99 : 144.97
N-EtFOSA (Raw)	TM440	109.69 59.56 : 132.93	126.65 59.56 : 132.93	105.99 59.56 : 132.93
NFDHA (Raw)	TM440	103.25 57.35 : 151.20	113.7 57.35 : 151.20	92.45 57.35 : 151.20
N-MeFOSA (Raw)	TM440	98.46 59.19 : 133.01	106.74 59.19 : 133.01	100.93 59.19 : 133.01
PFBA (Raw)	TM440	109.73 52.69 : 138.91	121.76 52.69 : 138.91	100.87 52.69 : 138.91



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Superseded Report:

PFAS in soils

		QC 3269	QC 3243	QC 3289
PFBS (Raw)	TM440	97.22 53.31 : 140.54	102.33 53.31 : 140.54	101.85 53.31 : 140.54
PFDA (Raw)	TM440	118.88 53.39 : 140.76	121.41 53.39 : 140.76	106.27 53.39 : 140.76
PFDoA (Raw)	TM440	108.62 52.85 : 139.34	117.2 52.85 : 139.34	102.66 52.85 : 139.34
PFDoS (Raw)	TM440	104.37 55.29 : 145.76	108.84 55.29 : 145.76	107.61 55.29 : 145.76
PFDS (Raw)	TM440	98.27 52.94 : 139.56	101.16 52.94 : 139.56	101.64 52.94 : 139.56
PFecHS (Raw)	TM440	98.57 50.75 : 133.80	94.61 50.75 : 133.80	103.28 50.75 : 133.80
PFEESA (Raw)	TM440	93.89 50.87 : 134.12	97.12 50.87 : 134.12	98.37 50.87 : 134.12
PFHpA (Raw)	TM440	115.39 52.61 : 138.69	116.53 52.61 : 138.69	104.49 52.61 : 138.69
PFHpS (Raw)	TM440	102.14 55.29 : 145.76	113.06 55.29 : 145.76	96.77 55.29 : 145.76
PFHxA (Raw)	TM440	104.05 54.05 : 142.50	111.29 54.05 : 142.50	98.71 54.05 : 142.50
PFHxDA (Raw)	TM440	95.39 52.03 : 137.17	104.66 52.03 : 137.17	96.86 52.03 : 137.17
PFHxS (Raw)	TM440	101.07 53.56 : 141.19	101.16 53.56 : 141.19	106.41 53.56 : 141.19
PFMOBA (Raw)	TM440	91.03 52.73 : 139.02	103.72 52.73 : 139.02	87.2 52.73 : 139.02
PFMOPrA (Raw)	TM440	90.41 52.57 : 138.58	94.19 52.57 : 138.58	106.99 52.57 : 138.58
PFNA (Raw)	TM440	100.1 52.94 : 139.56	112.89 52.94 : 139.56	106.15 52.94 : 139.56
PFNS (Raw)	TM440	101.61 54.38 : 143.37	101.89 54.38 : 143.37	102.92 54.38 : 143.37
PFOA (Raw)	TM440	106.62 53.80 : 141.85	112.29 53.80 : 141.85	98.31 53.80 : 141.85
PFODA (Raw)	TM440	97.21 56.03 : 147.72	100.77 56.03 : 147.72	87.63 56.03 : 147.72
PFOSA (Raw)	TM440	102.04 53.10 : 140.00	107.7 53.10 : 140.00	98.15 53.10 : 140.00
PFPA (Raw)	TM440	104.46 53.89 : 142.06	114.72 53.89 : 142.06	92.96 53.89 : 142.06
PFPeS (Raw)	TM440	103.65 54.30 : 143.15	107.32 54.30 : 143.15	102.64 54.30 : 143.15
PFTeA (Raw)	TM440	103.9 53.06 : 139.89	114.86 53.06 : 139.89	109.56 53.06 : 139.89
PFTrDA (Raw)	TM440	106.8 51.70 : 136.30	114.48 51.70 : 136.30	103.95 51.70 : 136.30
PFTrDS (Raw)	TM440	107.49 56.24 : 148.26	108.27 56.24 : 148.26	109.87 56.24 : 148.26
PFUnA (Raw)	TM440	101.12 53.35 : 140.65	108.64 53.35 : 140.65	100.27 53.35 : 140.65
PFUnDS (Raw)	TM440	112.6 53.60 : 141.30	114.1 53.60 : 141.30	104.38 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3257	QC 3251	QC 3268
11CI-PF3OUdS (763051-92-9)	TM434	118.97 62.16 : 138.51	105.19 62.16 : 138.51	113.28 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	72.22 89.89 : 130.69	123.35 89.89 : 130.69	140.85 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	107.42 66.54 : 140.56	102.33 66.54 : 140.56	107.66 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	115.87 60.34 : 133.39	105.3 60.34 : 133.39	117.22 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	100.58 59.12 : 129.56	94.03 59.12 : 129.56	100.45 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	102.92 67.48 : 129.58	97.38 67.48 : 129.58	100.51 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	116.08 79.83 : 133.08	124.53 79.83 : 133.08	136.43 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	112.85 81.70 : 132.18	104.73 81.70 : 132.18	104.38 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	111.64 71.98 : 136.03	108.23 71.98 : 136.03	110.14 71.98 : 136.03
ADONA (919005-14-4)	TM434	106.97 70.14 : 142.14	107.06 70.14 : 142.14	111.71 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	109.67 67.04 : 131.16	103.96 67.04 : 131.16	98.88 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	136.93 67.92 : 135.38	83.64 67.92 : 135.38	86.46 67.92 : 135.38
FBSA (30334-69-1)	TM434	124.45 58.08 : 137.20	116.85 58.08 : 137.20	134.75 58.08 : 137.20
FHxSA (41997-13-1)	TM434	117.4 71.81 : 148.16	111.83 71.81 : 148.16	126.68 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	100.27 57.03 : 123.70	98.57 57.03 : 123.70	103.73 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	97.13 55.94 : 147.48	103.36 55.94 : 147.48	112.57 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	105.6 69.95 : 145.18	110.49 69.95 : 145.18	105.06 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	111.6 68.44 : 128.29	109.4 68.44 : 128.29	117.16 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	127.27 70.83 : 132.00	85.47 70.83 : 132.00	83.87 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	173.74 59.26 : 122.86	84.59 59.26 : 122.86	88.81 59.26 : 122.86
NFDHA (151772-58-6)	TM434	108.35 59.99 : 133.56	98.3 59.99 : 133.56	104.33 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	164.61 62.71 : 118.96	80.49 62.71 : 118.96	83.43 62.71 : 118.96
PFBA (375-22-4)	TM434	109.16 67.84 : 130.39	101.4 67.84 : 130.39	103.35 67.84 : 130.39
PFBS (375-73-5)	TM434	107.17 90.25 : 126.25	116.86 90.25 : 126.25	119.59 90.25 : 126.25
PFDA (335-76-2)	TM434	103.41 68.94 : 132.99	105.57 68.94 : 132.99	102.12 68.94 : 132.99
PFDaA (307-55-1)	TM434	104.25 66.19 : 135.04	104.07 66.19 : 135.04	106.43 66.19 : 135.04
PFDoS (79780-39-5)	TM434	102.14 65.90 : 146.45	101.7 65.90 : 146.45	108.29 65.90 : 146.45



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Superseded Report:

PFAS Liquids (Full Suite)

		QC 3257	QC 3251	QC 3268
PFDS (335-77-3)	TM434	111.37 64.84 : 138.49	109.11 64.84 : 138.49	112.28 64.84 : 138.49
PFEESA (113507-82-7)	TM434	103.29 67.24 : 129.19	114.43 67.24 : 129.19	118.47 67.24 : 129.19
PFHpA (375-85-9)	TM434	108.15 72.89 : 141.36	106.51 72.89 : 141.36	110.79 72.89 : 141.36
PFHpS (375-92-8)	TM434	108.73 72.19 : 155.36	107.98 72.19 : 155.36	109.18 72.19 : 155.36
PFHxA (307-24-4)	TM434	108.48 71.79 : 135.84	100.35 71.79 : 135.84	101.33 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	105.16 89.96 : 128.14	105.85 89.96 : 128.14	111.9 89.96 : 128.14
PFHxS (355-46-4)	TM434	100.4 84.41 : 134.44	115.14 84.41 : 134.44	114.36 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	67.83 84.99 : 139.74	134.6 84.99 : 139.74	161.78 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	69.78 80.40 : 136.73	120.63 80.40 : 136.73	130.13 80.40 : 136.73
PFNA (375-95-1)	TM434	105.8 68.61 : 128.99	100.89 68.61 : 128.99	101.89 68.61 : 128.99
PFNS (68259-12-1)	TM434	114.79 70.70 : 130.93	118.6 70.70 : 130.93	117.06 70.70 : 130.93
PFOA (335-67-1)	TM434	102.79 74.09 : 143.61	120.58 74.09 : 143.61	122.29 74.09 : 143.61
PFODA (16517-11-6)	TM434	101.6 68.70 : 175.88	98.93 68.70 : 175.88	115.12 68.70 : 175.88
PFOSA (754-91-6)	TM434	108.25 67.59 : 130.51	108.74 67.59 : 130.51	103.84 67.59 : 130.51
PFPA (2706-90-3)	TM434	109.39 74.20 : 140.58	119.88 74.20 : 140.58	122.58 74.20 : 140.58
PFPeS (2706-91-4)	TM434	108.31 76.19 : 137.91	113.0 76.19 : 137.91	109.02 76.19 : 137.91
PFTeA (376-06-7)	TM434	104.19 66.36 : 144.96	116.18 66.36 : 144.96	113.8 66.36 : 144.96
PFTrDA (72629-94-8)	TM434	116.33 71.98 : 130.25	108.61 71.98 : 130.25	110.78 71.98 : 130.25
PFUnA (2058-94-8)	TM434	108.01 65.55 : 141.45	98.31 65.55 : 141.45	99.83 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	106.77 85.84 : 139.76	99.19 85.84 : 139.76	103.34 85.84 : 139.76

pH

Component	Method Code	QC 3291	QC 3202	QC 3204	QC 3206
pH	TM133	101.62 94.00 : 105.06	100.57 95.29 : 105.24	99.61 95.29 : 105.24	99.82 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

SDG: 251023-65
Client Ref.: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3211	QC 3237	QC 3239	QC 3243	QC 3283	QC 3289
Total Organic Carbon	TM132	100.26 93.61 : 106.00	98.64 93.61 : 106.00	98.77 93.61 : 106.00	98.06 93.61 : 106.00	98.53 93.61 : 106.00	98.5 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251023-65
Client Ref: UK-70100310

Report Number: 782044
Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	06 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251024-27
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	782348
Order Number:	UK-70100310-403

We received 34 samples on Wednesday October 22, 2025 and 34 of these samples were scheduled for analysis which was completed on Thursday November 06, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32340680	GR03-SP322-A	WS	0.00 - 0.60	20/10/2025
32340714	GR03-SP322-A	ESALS	0.10 - 0.20	20/10/2025
32340741	GR03-SP322-A	ES	0.20 - 0.30	20/10/2025
32340766	GR03-SP322-A	ES	0.50 - 0.60	20/10/2025
32340701	GR03-SP327-A	ES	0.00 - 0.10	20/10/2025
32340705	GR03-SP327-A	ES	0.30 - 0.40	20/10/2025
32340707	GR03-SP327-A	ES	0.40 - 0.50	20/10/2025
32340756	GR03-SP329-A	ES	0.00 - 0.10	20/10/2025
32340759	GR03-SP329-B	ES	0.20 - 0.30	20/10/2025
32340768	GR03-SP322-B-S1	ESA1	0.00 - 0.10	20/10/2025
32340770	GR03-SP322-B-S1	ESA2	0.00 - 0.10	20/10/2025
32340773	GR03-SP322-B-S1	ES	0.20 - 0.30	20/10/2025
32340776	GR03-SP322-B-S1	ES	0.40 - 0.50	20/10/2025
32340778	GR03-SP322-B-S2	ESA1	0.00 - 0.10	20/10/2025
32340685	GR03-SP322-B-S2	ESA2	0.00 - 0.10	20/10/2025
32340710	GR03-SP327-B-S1	ES	0.10 - 0.20	20/10/2025
32340712	GR03-SP327-B-S1	ESA1	0.20 - 0.30	20/10/2025
32340717	GR03-SP327-B-S1	ESA2	0.20 - 0.30	20/10/2025
32340720	GR03-SP327-B-S1	ES	0.50 - 0.60	20/10/2025
32340722	GR03-SP327-B-S2	ESA1	0.20 - 0.30	20/10/2025
32340724	GR03-SP327-B-S2	ESA2	0.20 - 0.30	20/10/2025
32340688	GR03-SP322-C	ESALS	0.00 - 0.10	20/10/2025
32340690	GR03-SP322-C	ES	0.30 - 0.40	20/10/2025
32340693	GR03-SP322-C	ES	0.40 - 0.50	20/10/2025
32340695	GR03-SP322-C	WT	0.40 - 0.50	20/10/2025
32340726	GR03-SP327-C	ES	0.00 - 0.10	20/10/2025
32340729	GR03-SP327-C	ESALS	0.20 - 0.30	20/10/2025
32340731	GR03-SP327-C	ES	0.40 - 0.50	20/10/2025
32340763	GR03-SP329-C	ES	0.10 - 0.20	20/10/2025
32340733	GR03-SP327-D	ES	0.10 - 0.20	20/10/2025
32340736	GR03-SP327-D	ES	0.20 - 0.30	20/10/2025
32340739	GR03-SP327-E	ES	0.00 - 0.10	20/10/2025
32340744	GR03-SP327-E	ESALS	0.30 - 0.40	20/10/2025
32340748	GR03-SP327-E	ES	0.40 - 0.50	20/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend Test No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type		32340720	32340717	32340712	32340710	32340685	32340778	32340776	32340773	32340770	32340768	32340759	32340756	32340707	32340705	32340701	32340766	32340741	32340714	32340680																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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32340748	GR03-SP327-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340744	GR03-SP327-E	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340739	GR03-SP327-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340736	GR03-SP327-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X				X
32340733	GR03-SP327-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340763	GR03-SP329-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340731	GR03-SP327-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X				X
32340729	GR03-SP327-C	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X				X
32340726	GR03-SP327-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340695	GR03-SP322-C	WT	0.40 - 0.50	50ml digitube (ALE001)	PW		X						
32340693	GR03-SP322-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340690	GR03-SP322-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X				X
32340688	GR03-SP322-C	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340724	GR03-SP327-B-S2	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X		X
32340722	GR03-SP327-B-S2	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32340714	GR03-SP322-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32340741	GR03-SP322-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32340766	GR03-SP322-A	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None
32340701	GR03-SP327-A	0.00 - 0.10	Dark Brown	Silt Loam	Vegetation	None
32340705	GR03-SP327-A	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32340707	GR03-SP327-A	0.40 - 0.50	Light Brown	Silty Clay Loam	Vegetation	None
32340756	GR03-SP329-A	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32340759	GR03-SP329-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32340768	GR03-SP322-B-S1	0.00 - 0.10	Light Brown	Sandy Loam	Stones	Vegetation
32340770	GR03-SP322-B-S1	0.00 - 0.10	Light Brown	Sandy Silt Loam	Vegetation	None
32340773	GR03-SP322-B-S1	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32340776	GR03-SP322-B-S1	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32340685	GR03-SP322-B-S2	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32340778	GR03-SP322-B-S2	0.00 - 0.10	Light Brown	Silt Loam	Vegetation	None
32340710	GR03-SP327-B-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32340712	GR03-SP327-B-S1	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32340717	GR03-SP327-B-S1	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32340720	GR03-SP327-B-S1	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32340722	GR03-SP327-B-S2	0.20 - 0.30	Light Brown	Silty Clay Loam	Vegetation	None
32340724	GR03-SP327-B-S2	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32340688	GR03-SP322-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32340690	GR03-SP322-C	0.30 - 0.40	Light Brown	Silt Loam	Brick	Stones
32340693	GR03-SP322-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32340726	GR03-SP327-C	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	Stones
32340729	GR03-SP327-C	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Brick	Stones
32340731	GR03-SP327-C	0.40 - 0.50	Dark Brown	Silty Clay Loam	Brick	Stones
32340763	GR03-SP329-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32340733	GR03-SP327-D	0.10 - 0.20	Dark Brown	Silt Loam	Stones	Vegetation
32340736	GR03-SP327-D	0.20 - 0.30	Light Brown	Loamy Sand	Concrete/Aggregate	Stones
32340739	GR03-SP327-E	0.00 - 0.10	Light Brown	Sandy Loam	Stones	Vegetation
32340744	GR03-SP327-E	0.30 - 0.40	Light Brown	Loamy Sand	Stones	Vegetation
32340748	GR03-SP327-E	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP327-A	GR03-SP327-A
#	ISO17025 accredited.			0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6.2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP327-A	GR03-SP327-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m mCERTS accredited.				Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025
diss.filt Dissolved / filtered sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
tot.unfiltTotal / unfiltered sample.				251024-27	251024-27	251024-27	251024-27	251024-27	251024-27
* Subcontracted - refer to subcontractor report for accreditation status.				32340680	32340714	32340741	32340766	32340701	32340705
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				WS	ESALS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)									
1-4* Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434		<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.002					
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434		<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.01					
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434		<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.001					
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434		<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.01					
Total PFOS	<0.00065 µg/l	TM434		<0.00065					
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.001					
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024			18	21	17	24	20
Soil Organic Matter (SOM)	<0.35 %	TM132			2.69	4.21	1.57	4.5	2.69
pH	1 pH Units	TM133			6.41	6.42	6.97	6.28	6.85
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP327-A	GR03-SP327-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.60 Process Water (PR) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025	0.20 - 0.30 Soil/Solid (S) 20/10/2025	0.50 - 0.60 Soil/Solid (S) 20/10/2025	0.00 - 0.10 Soil/Solid (S) 20/10/2025	0.30 - 0.40 Soil/Solid (S) 20/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*5@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.76	3.41	5.1	3.26	4.87
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP327-A	GR03-SP329-A	GR03-SP329-B	GR03-SP322-B-S1	GR03-SP322-B-S1	GR03-SP322-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025
diss.filt	Dissolved / filtered sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
tot.unfilt	Total / unfiltered sample.				251024-27	251024-27	251024-27	251024-27	251024-27	251024-27
Subcontracted - refer to subcontractor report for accreditation status.					32340707	32340756	32340759	32340768	32340770	32340773
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ESA1	ESA2	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	34	24	23	24	21
Soil Organic Matter (SOM)	<0.35 %	TM132			1.52	15.4	4.34	4.29	4.64	5.4
pH	1 pH Units	TM133			7.61	7.13	7.38	6.02	5.87	5.87
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	0.944	2.11	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.7	<0.5	2.45	3.46	3.5	3.9
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	1.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP322-B-S1	GR03-SP322-B-S2	GR03-SP322-B-S2	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025
diss.filt	Dissolved / filtered sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
tot.unfilt	Total / unfiltered sample.				251024-27	251024-27	251024-27	251024-27	251024-27	251024-27
* Subcontracted - refer to subcontractor report for accreditation status.					32340776	32340778	32340685	32340710	32340712	32340717
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESA1	ESA2	ES	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			18	23	23	24	22	20
Soil Organic Matter (SOM)	<0.35 %	TM132			1.48	4.57	4.43	4.47	5.6	2.53
pH	1 pH Units	TM133			6.47	5.9	6	7.03	7.09	7.31
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.23	3.42	3.28	5.59	4.65	4.49
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP327-B-S1	GR03-SP327-B-S2	GR03-SP327-B-S2	GR03-SP322-C	GR03-SP322-C	GR03-SP322-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.20 - 0.30	0.20 - 0.30	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025
diss.filt	Dissolved / filtered sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
tot.unfilt	Total / unfiltered sample.				251024-27	251024-27	251024-27	251024-27	251024-27	251024-27
* Subcontracted - refer to subcontractor report for accreditation status.					32340720	32340722	32340724	32340688	32340690	32340693
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESA1	ESA2	ESALS	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	23	20	21	18	16
Soil Organic Matter (SOM)	<0.35 %	TM132			0.85	3.59	2.43	4.86	2.36	1.76
pH	1 pH Units	TM133			#	#	#	#	#	#
PFBA (375-22-4)	<0.5 µg/kg	TM440			M	M	M	M	M	M
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.821	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.13	3.78	1.89	3.06	6.17	5.9
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP322-C	GR03-SP327-C	GR03-SP327-C	GR03-SP327-C	GR03-SP329-C	GR03-SP327-D	
# ISO17025 accredited.				Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Process Water (PR) 20/10/2025	0.00 - 0.10 Soil/Solid (S) 20/10/2025	0.20 - 0.30 Soil/Solid (S) 20/10/2025	0.40 - 0.50 Soil/Solid (S) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025
M mCERTS accredited.										
aq Aqueous / settled sample.										
diss.filt Dissolved / filtered sample.										
tot.unfiltTotal / unfiltered sample.										
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**\$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002							
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001							
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005							
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001							
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001							
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001							
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003							
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001							
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002							
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001							
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001							
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005							
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001							
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001							
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065							
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001							
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001							
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005							
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065							
Branched PFOS	<0.00065 µg/l	TM434	<0.00065							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001							
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001							
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP322-C	GR03-SP327-C	GR03-SP327-C	GR03-SP327-C	GR03-SP329-C	GR03-SP327-D
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Process Water (PR) 20/10/2025	0.00 - 0.10 Soil/Solid (S) 20/10/2025	0.20 - 0.30 Soil/Solid (S) 20/10/2025	0.40 - 0.50 Soil/Solid (S) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025
m mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251024-27	251024-27	251024-27	251024-27	251024-27	251024-27
*** 6:2 FTAB (see appendix)				32340695	32340726	32340729	32340731	32340763	32340733
1-4**@ Sample deviation (see appendix)				WT	ES	ESALS	ES	ES	ES
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434		<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.002					
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434		<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.01					
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434		<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.001					
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434		<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.01					
Total PFOS	<0.00065 µg/l	TM434		<0.00065					
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.001					
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024			16	14	22	28	21
Soil Organic Matter (SOM)	<0.35 %	TM132			5.21	5.64	3.4	9.05	4.9
pH	1 pH Units	TM133			8.05	8.21	8.24	5.87	7.83
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.738	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP322-C	GR03-SP327-C	GR03-SP327-C	GR03-SP327-C	GR03-SP329-C	GR03-SP327-D
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Process Water (PR) 20/10/2025	0.00 - 0.10 Soil/Solid (S) 20/10/2025	0.20 - 0.30 Soil/Solid (S) 20/10/2025	0.40 - 0.50 Soil/Solid (S) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025	0.10 - 0.20 Soil/Solid (S) 20/10/2025
m mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251024-27	251024-27	251024-27	251024-27	251024-27	251024-27
*** 6:2 FTAB (see appendix)				32340695	32340726	32340729	32340731	32340763	32340733
1-4**@ Sample deviation (see appendix)				WT	ES	ESALS	ES	ES	ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.76	1.24	2.48	1.13	1.49
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			0.75	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27
Client Ref.: UK-70100310

Report Number: 782348
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP327-D	GR03-SP327-E	GR03-SP327-E	GR03-SP327-E		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30 Soil/Solid (S) 20/10/2025	0.00 - 0.10 Soil/Solid (S) 20/10/2025	0.30 - 0.40 Soil/Solid (S) 20/10/2025	0.40 - 0.50 Soil/Solid (S) 20/10/2025		
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			13	25	10	15		
Soil Organic Matter (SOM)	<0.35 %	TM132			2.67	8.81	2.22	2.12		
					#	#	#	#		
pH	1 pH Units	TM133			8.64	6.61	8.44	8.33		
					M	M	M	M		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			<0.5	<0.5	0.736	1.97		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-27

Report Number: 782348

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32340680	32340714	32340741	32340766	32340701	32340705	32340707	32340756	32340759	32340768
	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP322-A	GR03-SP327-A	GR03-SP327-A	GR03-SP327-A	GR03-SP329-A	GR03-SP329-B	GR03-SP322-B-S1
	WS	ESALS	ES	ES	ES	ES	ES	ES	ES	ESA1
	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10
Depth Type	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		05-Nov-2025	05-Nov-2025	06-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	06-Nov-2025	05-Nov-2025	05-Nov-2025
PFAS Liquids (Full Suite)	05-Nov-2025									
pH		31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description		30-Oct-2025	30-Oct-2025	29-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	29-Oct-2025	30-Oct-2025	29-Oct-2025
Total Organic Carbon		05-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32340770	32340773	32340776	32340685	32340778	32340710	32340712	32340717	32340720	32340722
	GR03-SP322-B-S1	GR03-SP322-B-S1	GR03-SP322-B-S1	GR03-SP322-B-S2	GR03-SP322-B-S2	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S2
	ESA2	ES	ES	ESA2	ESA1	ES	ESA1	ESA2	ES	ESA1
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.50 - 0.60	0.20 - 0.30
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	05-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	30-Oct-2025	30-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	30-Oct-2025	30-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32340724	32340688	32340690	32340693	32340695	32340726	32340729	32340731	32340763	32340733
	GR03-SP327-B-S2	GR03-SP322-C	GR03-SP322-C	GR03-SP322-C	GR03-SP322-C	GR03-SP327-C	GR03-SP327-C	GR03-SP327-C	GR03-SP329-C	GR03-SP327-D
	ESA2	ESALS	ES	ES	WT	ES	ESALS	ES	ES	ES
	0.20 - 0.30	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	05-Nov-2025	05-Nov-2025	05-Nov-2025	06-Nov-2025		06-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
PFAS Liquids (Full Suite)					03-Nov-2025					
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	30-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025		30-Oct-2025	30-Oct-2025	30-Oct-2025	29-Oct-2025	29-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025		06-Nov-2025	06-Nov-2025	05-Nov-2025	05-Nov-2025	06-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32340736	32340739	32340744	32340748
	GR03-SP327-D	GR03-SP327-E	GR03-SP327-E	GR03-SP327-E
	ES	ES	ESALS	ES
	0.20 - 0.30	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	30-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025



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Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3289	QC 3274	QC 3203
10:2 FTS (Raw)	TM440	83.81 53.10 : 140.00	90.85 53.10 : 140.00	90.53 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	90.7 53.56 : 141.19	87.04 53.56 : 141.19	93.72 53.56 : 141.19
3:3 FTCA (Raw)	TM440	90.11 50.54 : 133.25	88.6 50.54 : 133.25	94.6 50.54 : 133.25
4:2 FTS (Raw)	TM440	96.26 56.34 : 145.91	97.75 56.34 : 145.91	96.8 56.34 : 145.91
5:3 FTCA (Raw)	TM440	82.63 52.66 : 130.08	91.1 52.66 : 130.08	89.94 52.66 : 130.08
6:2 FTAB (Raw)	TM440	35.26 38.50 : 101.50	39.98 38.50 : 101.50	38.09 38.50 : 101.50
6:2 FTS (Raw)	TM440	93.35 54.79 : 144.46	90.61 54.79 : 144.46	106.92 54.79 : 144.46
7:3 FTCA (Raw)	TM440	89.18 48.60 : 128.14	88.9 48.60 : 128.14	94.51 48.60 : 128.14
8:2 diPAP (Raw)	TM440	89.62 56.03 : 147.72	104.43 56.03 : 147.72	104.64 56.03 : 147.72
8:2 FTS (Raw)	TM440	92.46 55.74 : 146.96	90.62 55.74 : 146.96	81.23 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	89.09 54.59 : 143.91	88.45 54.59 : 143.91	87.13 54.59 : 143.91
ADONA (Raw)	TM440	83.25 54.01 : 132.33	86.34 54.01 : 132.33	90.28 54.01 : 132.33
Branched PFOS (Raw)	TM440	94.42 54.09 : 142.61	88.03 54.09 : 142.61	92.47 54.09 : 142.61
EtFOSAA (Raw)	TM440	95.27 52.48 : 138.36	92.22 52.48 : 138.36	115.65 52.48 : 138.36
EtFOSE (Raw)	TM440	88.96 57.05 : 145.29	92.89 57.05 : 145.29	92.72 57.05 : 145.29
FBSA (Raw)	TM440	82.92 49.51 : 125.13	82.47 49.51 : 125.13	90.29 49.51 : 125.13
FHxSA (Raw)	TM440	85.97 50.38 : 132.82	85.25 50.38 : 132.82	95.78 50.38 : 132.82
HFPO-DA (Raw)	TM440	92.01 53.47 : 140.98	91.54 53.47 : 140.98	93.37 53.47 : 140.98
HFPO-TA (Raw)	TM440	92.24 54.77 : 144.39	94.46 54.77 : 144.39	94.03 54.77 : 144.39
L-PFOS (Raw)	TM440	94.42 54.09 : 142.61	88.03 54.09 : 142.61	92.47 54.09 : 142.61
MeFOSAA (Raw)	TM440	88.66 53.02 : 139.78	95.17 53.02 : 139.78	90.42 53.02 : 139.78
MeFOSE (Raw)	TM440	82.91 54.99 : 144.97	88.19 54.99 : 144.97	94.23 54.99 : 144.97
N-EtFOSA (Raw)	TM440	100.83 59.56 : 132.93	106.52 59.56 : 132.93	90.1 59.56 : 132.93
NFDHA (Raw)	TM440	81.15 57.35 : 151.20	89.8 57.35 : 151.20	93.43 57.35 : 151.20
N-MeFOSA (Raw)	TM440	96.24 59.19 : 133.01	95.74 59.19 : 133.01	100.7 59.19 : 133.01
PFBA (Raw)	TM440	82.31 52.69 : 138.91	86.92 52.69 : 138.91	90.63 52.69 : 138.91



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PFAS in soils

		QC 3289	QC 3274	QC 3203
PFBS (Raw)	TM440	83.63 53.31 : 140.54	90.52 53.31 : 140.54	90.27 53.31 : 140.54
PFDA (Raw)	TM440	88.43 53.39 : 140.76	93.34 53.39 : 140.76	94.27 53.39 : 140.76
PFDoA (Raw)	TM440	92.14 52.85 : 139.34	86.0 52.85 : 139.34	102.23 52.85 : 139.34
PFDoS (Raw)	TM440	92.15 55.29 : 145.76	90.03 55.29 : 145.76	96.53 55.29 : 145.76
PFDS (Raw)	TM440	87.5 52.94 : 139.56	86.12 52.94 : 139.56	97.66 52.94 : 139.56
PFecHS (Raw)	TM440	88.67 50.75 : 133.80	86.39 50.75 : 133.80	97.34 50.75 : 133.80
PFEESA (Raw)	TM440	80.38 50.87 : 134.12	90.56 50.87 : 134.12	91.72 50.87 : 134.12
PFHpA (Raw)	TM440	83.25 52.61 : 138.69	91.07 52.61 : 138.69	92.17 52.61 : 138.69
PFHpS (Raw)	TM440	91.61 55.29 : 145.76	97.48 55.29 : 145.76	91.41 55.29 : 145.76
PFHxA (Raw)	TM440	82.99 54.05 : 142.50	89.1 54.05 : 142.50	95.97 54.05 : 142.50
PFHxDA (Raw)	TM440	82.19 52.03 : 137.17	92.04 52.03 : 137.17	94.74 52.03 : 137.17
PFHxS (Raw)	TM440	88.56 53.56 : 141.19	91.78 53.56 : 141.19	98.27 53.56 : 141.19
PFMOBA (Raw)	TM440	87.23 52.73 : 139.02	88.45 52.73 : 139.02	92.99 52.73 : 139.02
PFMOPrA (Raw)	TM440	82.69 52.57 : 138.58	81.91 52.57 : 138.58	95.32 52.57 : 138.58
PFNA (Raw)	TM440	87.75 52.94 : 139.56	86.03 52.94 : 139.56	94.79 52.94 : 139.56
PFNS (Raw)	TM440	87.14 54.38 : 143.37	83.11 54.38 : 143.37	89.32 54.38 : 143.37
PFOA (Raw)	TM440	87.56 53.80 : 141.85	86.36 53.80 : 141.85	98.44 53.80 : 141.85
PFODA (Raw)	TM440	77.93 56.03 : 147.72	81.61 56.03 : 147.72	83.33 56.03 : 147.72
PFOSA (Raw)	TM440	76.32 53.10 : 140.00	80.78 53.10 : 140.00	88.71 53.10 : 140.00
PFFPA (Raw)	TM440	91.1 53.89 : 142.06	90.36 53.89 : 142.06	94.11 53.89 : 142.06
PFPeS (Raw)	TM440	90.8 54.30 : 143.15	88.58 54.30 : 143.15	96.34 54.30 : 143.15
PFTeA (Raw)	TM440	90.96 53.06 : 139.89	92.4 53.06 : 139.89	100.69 53.06 : 139.89
PFTrDA (Raw)	TM440	94.46 51.70 : 136.30	95.15 51.70 : 136.30	102.22 51.70 : 136.30
PFTrDS (Raw)	TM440	92.08 56.24 : 148.26	91.59 56.24 : 148.26	98.0 56.24 : 148.26
PFUnA (Raw)	TM440	79.44 53.35 : 140.65	88.37 53.35 : 140.65	94.76 53.35 : 140.65
PFUnDS (Raw)	TM440	96.76 53.60 : 141.30	87.43 53.60 : 141.30	95.1 53.60 : 141.30

PFAS Liquids (Full Suite)



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Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3201	QC 3293
11CI-PF3OUdS (763051-92-9)	TM434	119.3 71.39 : 130.11	106.88 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	117.17 53.44 : 140.89	105.44 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	115.92 80.71 : 134.26	98.25 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	135.77 64.44 : 139.44	103.53 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	106.45 58.31 : 142.44	92.98 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	110.29 73.93 : 134.90	102.29 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	116.93 61.23 : 140.88	110.33 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	118.67 82.68 : 128.35	91.86 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	113.93 69.20 : 147.13	96.14 69.20 : 147.13
ADONA (919005-14-4)	TM434	119.07 73.23 : 135.10	98.37 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	113.91 72.95 : 133.93	96.29 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	180.04 67.47 : 136.89	83.01 67.47 : 136.89
FBSA (30334-69-1)	TM434	135.29 63.70 : 143.28	104.57 63.70 : 143.28
FHxSA (41997-13-1)	TM434	124.76 63.00 : 139.73	106.54 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	111.5 67.58 : 142.95	108.38 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	111.26 69.04 : 147.42	97.91 69.04 : 147.42
Linear PFOS (1763-23-1)	TM434	117.52 70.63 : 141.88	101.11 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	117.04 75.64 : 130.69	99.62 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	176.18 72.41 : 131.62	85.67 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	203.32 57.83 : 132.08	91.21 57.83 : 132.08
NFDHA (151772-58-6)	TM434	113.99 57.60 : 134.40	97.8 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	205.24 61.69 : 135.49	84.58 61.69 : 135.49
PFBA (375-22-4)	TM434	110.44 74.68 : 133.63	100.04 74.68 : 133.63
PFBS (375-73-5)	TM434	114.33 74.09 : 133.79	96.5 74.09 : 133.79
PFDA (335-76-2)	TM434	123.57 72.39 : 135.76	97.53 72.39 : 135.76
PFDaA (307-55-1)	TM434	117.65 58.06 : 148.21	98.41 58.06 : 148.21
PFDoS (79780-39-5)	TM434	110.07 74.76 : 130.94	105.43 74.76 : 130.94



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Superseded Report:

PFAS Liquids (Full Suite)

		QC 3201	QC 3293
PFDS (335-77-3)	TM434	118.5 58.61 : 140.44	100.04 58.61 : 140.44
PFEESA (113507-82-7)	TM434	117.04 62.25 : 138.08	92.42 62.25 : 138.08
PFHpA (375-85-9)	TM434	116.8 75.71 : 136.46	101.68 75.71 : 136.46
PFHpS (375-92-8)	TM434	112.19 76.13 : 132.38	99.25 76.13 : 132.38
PFHxA (307-24-4)	TM434	111.65 78.16 : 133.89	95.32 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	119.98 71.24 : 136.49	94.58 71.24 : 136.49
PFHxS (355-46-4)	TM434	116.67 73.25 : 135.20	99.8 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	110.44 76.41 : 130.26	99.43 76.41 : 130.26
PFMOPrA (377-73-1)	TM434	111.44 65.74 : 128.74	108.17 65.74 : 128.74
PFNA (375-95-1)	TM434	112.66 75.01 : 133.06	94.62 75.01 : 133.06
PFNS (68259-12-1)	TM434	112.75 74.74 : 129.26	98.15 74.74 : 129.26
PFOA (335-67-1)	TM434	112.54 74.76 : 136.11	98.32 74.76 : 136.11
PFODA (16517-11-6)	TM434	103.5 53.58 : 141.25	102.11 53.58 : 141.25
PFOSA (754-91-6)	TM434	120.2 76.54 : 135.04	97.33 76.54 : 135.04
PFPA (2706-90-3)	TM434	111.15 77.89 : 134.66	101.61 77.89 : 134.66
PFPeS (2706-91-4)	TM434	106.24 69.49 : 132.71	99.07 69.49 : 132.71
PFTeA (376-06-7)	TM434	115.38 61.66 : 143.71	100.7 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	122.11 67.04 : 136.04	95.83 67.04 : 136.04
PFUnA (2058-94-8)	TM434	116.63 70.21 : 138.54	99.31 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	112.83 71.45 : 127.25	102.85 71.45 : 127.25

pH

Component	Method Code	QC 3264	QC 3266	QC 3268	QC 3270	QC 3272
pH	TM133	100.24 95.29 : 105.24	99.02 95.29 : 105.24	99.48 95.29 : 105.24	100.02 95.29 : 105.24	99.12 95.29 : 105.24

Total Organic Carbon



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Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3212	QC 3220	QC 3231	QC 3272	QC 3278	QC 3288
Total Organic Carbon	TM132	97.47 93.61 : 106.00	96.41 93.61 : 106.00	95.15 93.61 : 106.00	100.21 93.61 : 106.00	98.16 93.61 : 106.00	97.4 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

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email: hawardencustomerservices@alsglobal.com
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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	06 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251024-36
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	782396
Order Number:	UK-70100310

We received 52 samples on Friday October 24, 2025 and 52 of these samples were scheduled for analysis which was completed on Thursday November 06, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32341277	GR03-SP332-A	ES	0.10 - 0.20	22/10/2025
32341305	GR03-SP332-A	WT	0.10 - 0.20	22/10/2025
32341342	GR03-SP332-A	ES	0.30 - 0.40	22/10/2025
32341368	GR03-SP332-A	ES	0.50 - 0.60	22/10/2025
32341329	GR03-SP335-A	ES	0.00 - 0.10	22/10/2025
32341338	GR03-SP335-A	ES	0.30 - 0.40	22/10/2025
32341340	GR03-SP335-A	ES	0.40 - 0.50	22/10/2025
32341344	GR03-SP335-B	Ws	0.00 - 0.60	22/10/2025
32341348	GR03-SP335-B	ES	0.10 - 0.20	22/10/2025
32341350	GR03-SP335-B	ES	0.20 - 0.30	22/10/2025
32341352	GR03-SP335-B	ES	0.50 - 0.60	22/10/2025
32341408	GR03-SP332-B-S1	ES	0.00 - 0.10	22/10/2025
32341416	GR03-SP332-B-S1	ESA1	0.30 - 0.40	22/10/2025
32341418	GR03-SP332-B-S1	ESA2	0.30 - 0.40	22/10/2025
32341420	GR03-SP332-B-S1	ES	0.40 - 0.50	22/10/2025
32341424	GR03-SP332-B-S2	ESA1	0.30 - 0.40	22/10/2025
32341279	GR03-SP332-B-S2	ESA2	0.30 - 0.40	22/10/2025
32341281	GR03-SP332-C	ES	0.10 - 0.20	22/10/2025
32341284	GR03-SP332-C	ES	0.20 - 0.30	22/10/2025
32341288	GR03-SP332-C	ES	0.50 - 0.60	22/10/2025
32341354	GR03-SP335-C	ES	0.00 - 0.10	22/10/2025
32341356	GR03-SP335-C	ESALS	0.20 - 0.30	22/10/2025
32341359	GR03-SP335-C	ES	0.40 - 0.50	22/10/2025
32341291	GR03-SP332-D	ES	0.00 - 0.10	22/10/2025
32341293	GR03-SP332-D	ES	0.20 - 0.30	22/10/2025
32341295	GR03-SP332-D	ESALS	0.40 - 0.50	22/10/2025
32341361	GR03-SP335-D	ES	0.10 - 0.20	22/10/2025
32341363	GR03-SP335-D	ES	0.30 - 0.40	22/10/2025
32341365	GR03-SP335-D	ES	0.50 - 0.60	22/10/2025
32341297	GR03-SP332-E	ES	0.10 - 0.20	22/10/2025
32341300	GR03-SP332-E	ES	0.30 - 0.40	22/10/2025
32341302	GR03-SP332-E	ES	0.50 - 0.60	22/10/2025
32341375	GR03-SP335-E	ES	0.00 - 0.10	22/10/2025
32341377	GR03-SP335-E	WT	0.00 - 0.10	22/10/2025
32341381	GR03-SP335-E	ES	0.30 - 0.40	22/10/2025
32341383	GR03-SP335-E	ES	0.40 - 0.50	22/10/2025
32341309	GR03-SP332-F	ES	0.00 - 0.10	22/10/2025
32341312	GR03-SP332-F	ES	0.30 - 0.40	22/10/2025
32341314	GR03-SP332-F	WT	0.30 - 0.40	22/10/2025
32341317	GR03-SP332-F	ES	0.40 - 0.50	22/10/2025
32341385	GR03-SP335-F-S1	ES	0.10 - 0.20	22/10/2025
32341388	GR03-SP335-F-S1	ES	0.20 - 0.30	22/10/2025
32341390	GR03-SP335-F-S1	ESA1	0.50 - 0.60	22/10/2025
32341394	GR03-SP335-F-S1	ESA2	0.50 - 0.60	22/10/2025
32341403	GR03-SP335-F-S2	ESA1	0.50 - 0.60	22/10/2025
32341405	GR03-SP335-F-S2	ESA2	0.50 - 0.60	22/10/2025
32341319	GR03-SP332-G	ES	0.10 - 0.20	22/10/2025
32341322	GR03-SP332-G	ES	0.20 - 0.30	22/10/2025
32341326	GR03-SP332-G	ESALS	0.50 - 0.60	22/10/2025
32341410	GR03-SP335-G	ESALS	0.00 - 0.10	22/10/2025
32341412	GR03-SP335-G	ES	0.20 - 0.30	22/10/2025
32341414	GR03-SP335-G	ES	0.40 - 0.50	22/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32341284	GR03-SP332-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32341281	GR03-SP332-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32341279	GR03-SP332-B-S2	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32341424	GR03-SP332-B-S2	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32341420	GR03-SP332-B-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32341418	GR03-SP332-B-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32341416	GR03-SP332-B-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32341408	GR03-SP332-B-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32341352	GR03-SP332-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32341350	GR03-SP332-B-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32341348	GR03-SP332-B-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32341344	GR03-SP332-B-S1	ES	0.00 - 0.60	50ml digtube (ALE001)	PW						
	32341340	GR03-SP332-B-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32341338	GR03-SP332-B-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32341329	GR03-SP332-B-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32341368	GR03-SP332-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32341342	GR03-SP332-B-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32341305	GR03-SP332-B-S1	WT	0.10 - 0.20	50ml digtube (ALE001)	PW						
	32341277	GR03-SP332-B-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 4									
pH		All	NDPs: 0 Tests: 48									
Sample description		All	NDPs: 0 Tests: 43									
Total Organic Carbon		All	NDPs: 0 Tests: 48									

32341317	GR03-SP332-F	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341314	GR03-SP332-F	WT	0.30 - 0.40	50ml digitube (ALE001)	PW		X				
32341312	GR03-SP332-F	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X
32341309	GR03-SP332-F	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341383	GR03-SP335-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341381	GR03-SP335-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341377	GR03-SP335-E	WT	0.00 - 0.10	50ml digitube (ALE001)	PW		X				
32341375	GR03-SP335-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341302	GR03-SP332-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341300	GR03-SP332-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341297	GR03-SP332-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341365	GR03-SP335-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341363	GR03-SP335-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341361	GR03-SP335-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341295	GR03-SP332-D	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341293	GR03-SP332-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X
32341291	GR03-SP332-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X
32341359	GR03-SP335-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341356	GR03-SP335-C	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341354	GR03-SP335-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X
32341288	GR03-SP332-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X

SDG: 251024-36

Report Number: 782396

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Results Legend



Test



No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- US - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water
- Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type				
						All			
32341414	GR03-SP335-G	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S		X		
32341412	GR03-SP335-G	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S		X		
32341410	GR03-SP335-G	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S		X		
32341326	GR03-SP332-G	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S		X		
32341322	GR03-SP332-G	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S		X		
32341319	GR03-SP332-G	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S		X		
32341405	GR03-SP335-F-S2	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S		X		
32341403	GR03-SP335-F-S2	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S		X		
32341394	GR03-SP335-F-S1	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S		X		
32341390	GR03-SP335-F-S1	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S		X		
32341388	GR03-SP335-F-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S		X		
32341385	GR03-SP335-F-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S		X		
All	NDPs: 0 Tests: 48								
All	NDPs: 0 Tests: 48								
All	NDPs: 0 Tests: 43								
All	NDPs: 0 Tests: 48								



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine <0.063mm **fine** 0.063mm - 0.1mm **medium** 0.1mm - 2mm **coarse** 2mm - 10mm **very coarse** >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32341277	GR03-SP332-A	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Tile/Insulation Board
32341342	GR03-SP332-A	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Tile/Insulation Board
32341368	GR03-SP332-A	0.50 - 0.60	Dark Brown	Silty Clay Loam	Brick	Stones
32341329	GR03-SP335-A	0.00 - 0.10	Light Brown	Silt Loam	Vegetation	None
32341338	GR03-SP335-A	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	Stones
32341340	GR03-SP335-A	0.40 - 0.50	Light Brown	Silt Loam	Stones	Vegetation
32341348	GR03-SP335-B	0.10 - 0.20	Light Brown	Silty Clay Loam	Vegetation	None
32341350	GR03-SP335-B	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32341352	GR03-SP335-B	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32341408	GR03-SP332-B-S1	0.00 - 0.10	Dark Brown	Loamy Sand	Stones	Vegetation
32341416	GR03-SP332-B-S1	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	Stones
32341418	GR03-SP332-B-S1	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32341420	GR03-SP332-B-S1	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32341279	GR03-SP332-B-S2	0.30 - 0.40	Light Brown	Silty Clay Loam	Concrete/Aggregate	Glass & Stones
32341424	GR03-SP332-B-S2	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32341281	GR03-SP332-C	0.10 - 0.20	Dark Brown	Sandy Loam	Vegetation	None
32341284	GR03-SP332-C	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32341288	GR03-SP332-C	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32341354	GR03-SP335-C	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32341356	GR03-SP335-C	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32341359	GR03-SP335-C	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32341291	GR03-SP332-D	0.00 - 0.10	Dark Brown	Sandy Loam	Concrete/Aggregate	Stones
32341293	GR03-SP332-D	0.20 - 0.30	Light Brown	Silty Clay Loam	Glass & Stones	Concrete/Aggregate
32341295	GR03-SP332-D	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	None
32341361	GR03-SP335-D	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32341363	GR03-SP335-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32341365	GR03-SP335-D	0.50 - 0.60	Light Brown	Silty Clay	Vegetation	Stones
32341297	GR03-SP332-E	0.10 - 0.20	Dark Brown	Silt Loam	Glass & Stones	Vegetation
32341300	GR03-SP332-E	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32341302	GR03-SP332-E	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32341375	GR03-SP335-E	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	Stones
32341381	GR03-SP335-E	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32341383	GR03-SP335-E	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	Stones
32341309	GR03-SP332-F	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Glass & Stones	Vegetation
32341312	GR03-SP332-F	0.30 - 0.40	Dark Brown	Silt Loam	Brick	Stones
32341317	GR03-SP332-F	0.40 - 0.50	Light Brown	Silt Loam	Glass & Stones	Vegetation
32341385	GR03-SP335-F-S1	0.10 - 0.20	Dark Brown	Sandy Loam	Vegetation	Stones
32341388	GR03-SP335-F-S1	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32341390	GR03-SP335-F-S1	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32341394	GR03-SP335-F-S1	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Brick
32341403	GR03-SP335-F-S2	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32341405	GR03-SP335-F-S2	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32341319	GR03-SP332-G	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Vegetation	None
32341322	GR03-SP332-G	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32341326	GR03-SP332-G	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32341410	GR03-SP335-G	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32341412	GR03-SP335-G	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32341414	GR03-SP335-G	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP335-A	GR03-SP335-A
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m)	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
PFBA (375-22-4)	<0.002 µg/l	TM434	Sample Type	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	Date Sampled	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Sample Time						
PFPA (2706-90-3)	<0.001 µg/l	TM434	Date Received	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	SDG Ref	251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	Lab Sample No.(s)	32341277	32341305	32341342	32341368	32341329	32341338
NFDHA (151772-58-6)	<0.003 µg/l	TM434	AGS Reference	ES	WT	ES	ES	ES	ES
PFBS (375-73-5)	<0.001 µg/l	TM434							
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP335-A	GR03-SP335-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt	Dissolved / filtered sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
tot.unfilt	Total / unfiltered sample.				251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
* Subcontracted - refer to subcontractor report for accreditation status.					32341277	32341305	32341342	32341368	32341329	32341338
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			24		24	26	26	23
Soil Organic Matter (SOM)	<0.35 %	TM132			4.36		3.14	5.98	4.98	3.29
pH	1 pH Units	TM133			8.08		7.95	8.03	5.1	5.81
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP335-A	GR03-SP335-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m MCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt Dissolved / filtered sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
tot.unfiltTotal / unfiltered sample.				251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
* Subcontracted - refer to subcontractor report for accreditation status.				32341277	32341305	32341342	32341368	32341329	32341338
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	WT	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*9@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	2.36
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		0.945		2.88	6.56	4.74	6.79
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		1.38		1.62	<0.6	1.23	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP335-A	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B	GR03-SP332-B-S1					
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 22/10/2025 . 24/10/2025 251024-36 32341340 ES								0.00 - 0.60 Process Water (PR) 22/10/2025 . 24/10/2025 251024-36 32341344 Ws	0.10 - 0.20 Soil/Solid (S) 22/10/2025 . 24/10/2025 251024-36 32341348 ES	0.20 - 0.30 Soil/Solid (S) 22/10/2025 . 24/10/2025 251024-36 32341350 ES	0.50 - 0.60 Soil/Solid (S) 22/10/2025 . 24/10/2025 251024-36 32341352 ES	0.00 - 0.10 Soil/Solid (S) 22/10/2025 . 24/10/2025 251024-36 32341408 ES
Component	LOD/Units	Method												
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002									
PFMOPrA (377-73-1)	<0.001 µg/l	TM434			<0.001									
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005									
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001									
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001									
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001									
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003									
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001									
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001									
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002									
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001									
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001									
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001									
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005									
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001									
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001									
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001									
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065									
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001									
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001									
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001									
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002									
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005									
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002									
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002									
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005									
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065									
Branched PFOS	<0.00065 µg/l	TM434			<0.00065									
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002									
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002									
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001									
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001									
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001									



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP335-A	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B	GR03-SP332-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.40 - 0.50 Soil/Solid (S) 22/10/2025	0.00 - 0.60 Process Water (PR) 22/10/2025	0.10 - 0.20 Soil/Solid (S) 22/10/2025	0.20 - 0.30 Soil/Solid (S) 22/10/2025	0.50 - 0.60 Soil/Solid (S) 22/10/2025	0.00 - 0.10 Soil/Solid (S) 22/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
*** 6:2 FTAB (see appendix)					32341340	32341344	32341348	32341350	32341352	32341408
1-4* Sample deviation (see appendix)					ES	Ws	ES	ES	ES	ES
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			21		22	20	19	8.9
Soil Organic Matter (SOM)	<0.35 %	TM132			2.22		4.34	3.09	1.29	1.69
pH	1 pH Units	TM133			5.85		6.1	6.54	6.89	8.46
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP335-A	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B	GR03-SP332-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 22/10/2025	0.00 - 0.60 Process Water (PR) 22/10/2025	0.10 - 0.20 Soil/Solid (S) 22/10/2025	0.20 - 0.30 Soil/Solid (S) 22/10/2025	0.50 - 0.60 Soil/Solid (S) 22/10/2025	0.00 - 0.10 Soil/Solid (S) 22/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
*** 6:2 FTAB (see appendix)					32341340	32341344	32341348	32341350	32341352	32341408
1-4* \$@ Sample deviation (see appendix)					ES	Ws	ES	ES	ES	ES
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.71		3.97	5.17	4.73	<0.5
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP332-B-S1	GR03-SP332-B-S1	GR03-SP332-B-S1	GR03-SP332-B-S2	GR03-SP332-B-S2	GR03-SP332-C
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40 Soil/Solid (S) 22/10/2025	0.30 - 0.40 Soil/Solid (S) 22/10/2025	0.40 - 0.50 Soil/Solid (S) 22/10/2025	0.30 - 0.40 Soil/Solid (S) 22/10/2025	0.30 - 0.40 Soil/Solid (S) 22/10/2025	0.10 - 0.20 Soil/Solid (S) 22/10/2025
diss.filt Dissolved / filtered sample.	tot.unfiltTotal / unfiltered sample.	* Subcontracted - refer to subcontractor report for accreditation status.			24/10/2025 251024-36 32341416 ESA1	24/10/2025 251024-36 32341418 ESA2	24/10/2025 251024-36 32341420 ES	24/10/2025 251024-36 32341424 ESA1	24/10/2025 251024-36 32341279 ESA2	24/10/2025 251024-36 32341281 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	*** 6:2 FTAB (see appendix)	1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			24	25	24	24	25	32
Soil Organic Matter (SOM)	<0.35 %	TM132			6.71	3.1	2.33	2.71	2.78	6.03
pH	1 pH Units	TM133			7.66	7.66	7.66	7.44	7.47	7.65
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.64	4.62	7.32	7.46	7.51	2.84
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP332-C	GR03-SP332-C	GR03-SP335-C	GR03-SP335-C	GR03-SP335-C	GR03-SP332-D
# ISO17025 accredited.				0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.				251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				32341284	32341288	32341354	32341356	32341359	32341291
*** 6.2 FTAB (see appendix)				ES	ES	ES	ESALS	ES	ES
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	24	22	23	21	20	28	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.09	1.91	8.21	3.64	1.91	6.6	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.12	7.83	7.25	7.44	7.73	7.81	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.39	5.66	6.17	8.99	12	2.32	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	0.789	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP332-D	GR03-SP332-D	GR03-SP335-D	GR03-SP335-D	GR03-SP335-D	GR03-SP332-E						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341293 ES								0.40 - 0.50 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341295 ESALS	0.10 - 0.20 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341361 ES	0.30 - 0.40 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341363 ES	0.50 - 0.60 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341365 ES	0.10 - 0.20 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341297 ES	
Component	LOD/Units	Method								25	21	21	19	20	27
Moisture Content Ratio (% of as received sample)	%	PM024								25	21	21	19	20	27
Soil Organic Matter (SOM)	<0.35 %	TM132								3.29	1.91	8.15	5.55	1.17	5.24
pH	1 pH Units	TM133								7.44	7.33	7.77	7.9	7.53	7.83
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.7	3.41	1.3	1.45	1.84	2.64							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP332-E	GR03-SP332-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E
#	ISO17025 accredited.			0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@ Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP332-E	GR03-SP332-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.					251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					32341300	32341302	32341375	32341377	32341381	32341383
*** 6:2 FTAB (see appendix)					ES	ES	ES	WT	ES	ES
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024			25	20	21		18	19
Soil Organic Matter (SOM)	<0.35 %	TM132			3.76	1.76	7.55		3.43	1.74
pH	1 pH Units	TM133			7.6	7.64	7.57		8.16	7.7
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8		<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1		<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP332-E	GR03-SP332-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E
# ISO17025 accredited. m mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341300 ES	0.50 - 0.60 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341302 ES	0.00 - 0.10 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341375 ES	0.00 - 0.10 Process Water (PR) 22/10/2025 24/10/2025 251024-36 32341377 WT	0.30 - 0.40 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341381 ES	0.40 - 0.50 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341383 ES
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.1	4.35	1.44		3.16	4.61
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	0.901		<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP332-F 0.00 - 0.10 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341309 ES	GR03-SP332-F 0.30 - 0.40 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341312 ES	GR03-SP332-F 0.30 - 0.40 Process Water (PR) 22/10/2025 24/10/2025 251024-36 32341314 WT	GR03-SP332-F 0.40 - 0.50 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341317 ES	GR03-SP335-F-S1 0.10 - 0.20 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341385 ES	GR03-SP335-F-S1 0.20 - 0.30 Soil/Solid (S) 22/10/2025 24/10/2025 251024-36 32341388 ES						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Component								LOD/Units	Method				
PFBA (375-22-4)	<0.002 µg/l								TM434			<0.002		
PFMOPrA (377-73-1)	<0.001 µg/l								TM434			<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l								TM434			<0.005		
PFPA (2706-90-3)	<0.001 µg/l								TM434			<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l								TM434			<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l								TM434			<0.001		
NFDHA (151772-58-6)	<0.003 µg/l								TM434			<0.003		
PFBS (375-73-5)	<0.001 µg/l								TM434			<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001									
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002									
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001									
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001									
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001									
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005									
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001									
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001									
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001									
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065									
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001									
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001									
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001									
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002									
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005									
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002									
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002									
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005									
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065									
Branched PFOS	<0.00065 µg/l	TM434			<0.00065									
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002									
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002									
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001									
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001									
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001									



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP332-F	GR03-SP332-F	GR03-SP332-F	GR03-SP332-F	GR03-SP335-F-S1	GR03-SP335-F-S1
#	ISO17025 accredited.			0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@ Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002				
PFTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434			<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01				
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434			<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001				
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434			<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01				
Total PFOS	<0.00065 µg/l	TM434			<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434			<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001				
PFTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	28	25		21	20	19	
Soil Organic Matter (SOM)	<0.35 %	TM132	5.52	4.74		2.38	13.6	12.6	
pH	1 pH Units	TM133	8.02	7.37		7.62	7.62	7.68	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	0.878	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP332-F	GR03-SP332-F	GR03-SP332-F	GR03-SP332-F	GR03-SP335-F-S1	GR03-SP335-F-S1
#	ISO17025 accredited.	m	Depth (m)	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	
m	mCERTS accredited.	aq	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.		Date Sampled	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	
diss.filt	Dissolved / filtered sample.		Sample Time							
tot.unfilt	Total / unfiltered sample.		Date Received	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	
	* Subcontracted - refer to subcontractor report for accreditation status.		SDG Ref	251024-36	251024-36	251024-36	251024-36	251024-36	251024-36	
	** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Lab Sample No.(s)	32341309	32341312	32341314	32341317	32341385	32341388	
	*** 6:2 FTAB (see appendix)		AGS Reference	ES	ES	WT	ES	ES	ES	
	1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5		<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		1.89	4.25		2.74	2.48	2.61	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10		<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9		<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4		<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	0.758	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5		<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4		<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8		<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7		<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP335-F-S1	GR03-SP335-F-S1	GR03-SP335-F-S2	GR03-SP335-F-S2	GR03-SP332-G	GR03-SP332-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025
diss.filt	Dissolved / filtered sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
tot.unfilt	Total / unfiltered sample.				251024-36	251024-36	251024-36	251024-36	251024-36	251024-36
* Subcontracted - refer to subcontractor report for accreditation status.					32341390	32341394	32341403	32341405	32341319	32341322
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ESA1	ESA2	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			21	20	19	19	29	28
Soil Organic Matter (SOM)	<0.35 %	TM132			3.71	3.33	4.81	2.21	5.74	5.97
pH	1 pH Units	TM133			8.22	8.08	8.17	8.16	7.42	7.87
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.6	3.31	2.02	1.66	5.5	3.07
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP332-G	GR03-SP335-G	GR03-SP335-G	GR03-SP335-G		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 22/10/2025	0.00 - 0.10 Soil/Solid (S) 22/10/2025	0.20 - 0.30 Soil/Solid (S) 22/10/2025	0.40 - 0.50 Soil/Solid (S) 22/10/2025		
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			20	23	20	19		
Soil Organic Matter (SOM)	<0.35 %	TM132			1.88	8.6	6.88	2.6		
					#	#	#	#		
pH	1 pH Units	TM133			7.73	7.67	7.56	7.76		
					M	M	M	M		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	1.36	0.826	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.14	1.95	3.01	6.86		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36

Report Number: 782396

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32341277	32341305	32341342	32341368	32341329	32341338	32341340	32341344	32341348	32341350
	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP332-A	GR03-SP335-A	GR03-SP335-A	GR03-SP335-A	GR03-SP335-B	GR03-SP335-B	GR03-SP335-B
	ES	WT	ES	ES	ES	ES	ES	Ws	ES	ES
	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30
	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	06-Nov-2025		06-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025	06-Nov-2025		05-Nov-2025	06-Nov-2025
PFAS Liquids (Full Suite)		05-Nov-2025						03-Nov-2025		
pH	31-Oct-2025		31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025	31-Oct-2025
Sample description	30-Oct-2025		30-Oct-2025	30-Oct-2025	30-Oct-2025	27-Oct-2025	30-Oct-2025		30-Oct-2025	29-Oct-2025
Total Organic Carbon	06-Nov-2025		06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025		06-Nov-2025	06-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32341352	32341408	32341416	32341418	32341420	32341279	32341424	32341281	32341284	32341288
	GR03-SP335-B	GR03-SP332-B-S1	GR03-SP332-B-S1	GR03-SP332-B-S1	GR03-SP332-B-S1	GR03-SP332-B-S2	GR03-SP332-B-S2	GR03-SP332-C	GR03-SP332-C	GR03-SP332-C
	ES	ES	ESA1	ESA2	ES	ESA2	ESA1	ES	ES	ES
	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.30 - 0.40	0.30 - 0.40	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	29-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	29-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025	27-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32341354	32341356	32341359	32341291	32341293	32341295	32341361	32341363	32341365	32341297
	GR03-SP335-C	GR03-SP335-C	GR03-SP335-C	GR03-SP332-D	GR03-SP332-D	GR03-SP332-D	GR03-SP335-D	GR03-SP335-D	GR03-SP335-D	GR03-SP332-E
	ES	ESALS	ES	ES	ES	ESALS	ES	ES	ES	ES
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	06-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	27-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32341300	32341302	32341375	32341377	32341381	32341383	32341309	32341312	32341314	32341317
	GR03-SP332-E	GR03-SP332-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E	GR03-SP335-E	GR03-SP332-F	GR03-SP332-F	GR03-SP332-F	GR03-SP332-F
	ES	ES	ES	WT	ES	ES	ES	ES	WT	ES
	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	06-Nov-2025	06-Nov-2025	05-Nov-2025		06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025		06-Nov-2025
PFAS Liquids (Full Suite)				03-Nov-2025					03-Nov-2025	
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025
Sample description	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025		30-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	06-Nov-2025		06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025		06-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32341385	32341388	32341390	32341394	32341403	32341405	32341319	32341322	32341326	32341410
	GR03-SP335-F-S1	GR03-SP335-F-S1	GR03-SP335-F-S1	GR03-SP335-F-S1	GR03-SP335-F-S2	GR03-SP335-F-S2	GR03-SP332-G	GR03-SP332-G	GR03-SP332-G	GR03-SP335-G
	ES	ES	ESA1	ESA2	ESA1	ESA2	ES	ES	ESALS	ESALS
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	30-Oct-2025	29-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025
Total Organic Carbon	06-Nov-2025	06-Nov-2025	06-Nov-2025	05-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32341412	32341414								
	GR03-SP335-G	GR03-SP335-G								
	ES	ES								
	0.20 - 0.30	0.40 - 0.50								
	Soil/Solid (S)	Soil/Solid (S)								
PFAS in soils	06-Nov-2025	06-Nov-2025								
pH	31-Oct-2025	31-Oct-2025								
Sample description	30-Oct-2025	30-Oct-2025								
Total Organic Carbon	05-Nov-2025	06-Nov-2025								



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3289	QC 3203	QC 3268	QC 3216
10:2 FTS (Raw)	TM440	83.81 53.10 : 140.00	90.53 53.10 : 140.00	74.06 53.10 : 140.00	77.45 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	90.7 53.56 : 141.19	93.72 53.56 : 141.19	78.27 53.56 : 141.19	84.52 53.56 : 141.19
3:3 FTCA (Raw)	TM440	90.11 50.54 : 133.25	94.6 50.54 : 133.25	85.7 50.54 : 133.25	90.28 50.54 : 133.25
4:2 FTS (Raw)	TM440	96.26 56.34 : 145.91	96.8 56.34 : 145.91	95.45 56.34 : 145.91	92.72 56.34 : 145.91
5:3 FTCA (Raw)	TM440	82.63 52.66 : 130.08	89.94 52.66 : 130.08	88.15 52.66 : 130.08	92.77 52.66 : 130.08
6:2 FTAB (Raw)	TM440	35.26 38.50 : 101.50	38.09 38.50 : 101.50	35.49 38.50 : 101.50	34.6 38.50 : 101.50
6:2 FTS (Raw)	TM440	93.35 54.79 : 144.46	106.92 54.79 : 144.46	86.03 54.79 : 144.46	85.43 54.79 : 144.46
7:3 FTCA (Raw)	TM440	89.18 48.60 : 128.14	94.51 48.60 : 128.14	85.13 48.60 : 128.14	91.93 48.60 : 128.14
8:2 diPAP (Raw)	TM440	89.62 56.03 : 147.72	104.64 56.03 : 147.72	99.38 56.03 : 147.72	98.58 56.03 : 147.72
8:2 FTS (Raw)	TM440	92.46 55.74 : 146.96	81.23 55.74 : 146.96	85.47 55.74 : 146.96	87.93 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	89.09 54.59 : 143.91	87.13 54.59 : 143.91	83.92 54.59 : 143.91	90.32 54.59 : 143.91
ADONA (Raw)	TM440	83.25 54.01 : 132.33	90.28 54.01 : 132.33	90.61 54.01 : 132.33	89.98 54.01 : 132.33
Branched PFOS (Raw)	TM440	94.42 54.09 : 142.61	92.47 54.09 : 142.61	85.82 54.09 : 142.61	89.37 54.09 : 142.61
EtFOSAA (Raw)	TM440	95.27 52.48 : 138.36	115.65 52.48 : 138.36	97.64 52.48 : 138.36	100.5 52.48 : 138.36
EtFOSE (Raw)	TM440	88.96 57.05 : 145.29	92.72 57.05 : 145.29	95.1 57.05 : 145.29	92.1 57.05 : 145.29
FBSA (Raw)	TM440	82.92 49.51 : 125.13	90.29 49.51 : 125.13	85.71 49.51 : 125.13	86.73 49.51 : 125.13
FHxSA (Raw)	TM440	85.97 50.38 : 132.82	95.78 50.38 : 132.82	84.88 50.38 : 132.82	83.85 50.38 : 132.82
HFPO-DA (Raw)	TM440	92.01 53.47 : 140.98	93.37 53.47 : 140.98	91.77 53.47 : 140.98	92.34 53.47 : 140.98
HFPO-TA (Raw)	TM440	92.24 54.77 : 144.39	94.03 54.77 : 144.39	97.3 54.77 : 144.39	99.32 54.77 : 144.39
L-PFOS (Raw)	TM440	94.42 54.09 : 142.61	92.47 54.09 : 142.61	85.82 54.09 : 142.61	89.37 54.09 : 142.61
MeFOSAA (Raw)	TM440	88.66 53.02 : 139.78	90.42 53.02 : 139.78	99.69 53.02 : 139.78	99.63 53.02 : 139.78
MeFOSE (Raw)	TM440	82.91 54.99 : 144.97	94.23 54.99 : 144.97	92.86 54.99 : 144.97	89.22 54.99 : 144.97
N-EtFOSA (Raw)	TM440	100.83 59.56 : 132.93	90.1 59.56 : 132.93	85.65 59.56 : 132.93	87.03 59.56 : 132.93
NFDHA (Raw)	TM440	81.15 57.35 : 151.20	93.43 57.35 : 151.20	90.11 57.35 : 151.20	88.59 57.35 : 151.20
N-MeFOSA (Raw)	TM440	96.24 59.19 : 133.01	100.7 59.19 : 133.01	88.42 59.19 : 133.01	84.11 59.19 : 133.01
PFBA (Raw)	TM440	82.31 52.69 : 138.91	90.63 52.69 : 138.91	91.6 52.69 : 138.91	90.87 52.69 : 138.91



CERTIFICATE OF ANALYSIS

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SDG: 251024-36
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Superseded Report:

PFAS in soils

		QC 3289	QC 3203	QC 3268	QC 3216
PFBS (Raw)	TM440	83.63 53.31 : 140.54	90.27 53.31 : 140.54	98.79 53.31 : 140.54	91.29 53.31 : 140.54
PFDA (Raw)	TM440	88.43 53.39 : 140.76	94.27 53.39 : 140.76	88.81 53.39 : 140.76	89.81 53.39 : 140.76
PFDoA (Raw)	TM440	92.14 52.85 : 139.34	102.23 52.85 : 139.34	90.46 52.85 : 139.34	90.31 52.85 : 139.34
PFDoS (Raw)	TM440	92.15 55.29 : 145.76	96.53 55.29 : 145.76	82.22 55.29 : 145.76	87.48 55.29 : 145.76
PFDS (Raw)	TM440	87.5 52.94 : 139.56	97.66 52.94 : 139.56	79.65 52.94 : 139.56	81.6 52.94 : 139.56
PFecHS (Raw)	TM440	88.67 50.75 : 133.80	97.34 50.75 : 133.80	84.94 50.75 : 133.80	82.67 50.75 : 133.80
PFEESA (Raw)	TM440	80.38 50.87 : 134.12	91.72 50.87 : 134.12	91.27 50.87 : 134.12	87.8 50.87 : 134.12
PFHpA (Raw)	TM440	83.25 52.61 : 138.69	92.17 52.61 : 138.69	96.11 52.61 : 138.69	92.31 52.61 : 138.69
PFHpS (Raw)	TM440	91.61 55.29 : 145.76	91.41 55.29 : 145.76	88.59 55.29 : 145.76	93.25 55.29 : 145.76
PFHxA (Raw)	TM440	82.99 54.05 : 142.50	95.97 54.05 : 142.50	92.7 54.05 : 142.50	92.18 54.05 : 142.50
PFHxDA (Raw)	TM440	82.19 52.03 : 137.17	94.74 52.03 : 137.17	92.85 52.03 : 137.17	112.63 52.03 : 137.17
PFHxS (Raw)	TM440	88.56 53.56 : 141.19	98.27 53.56 : 141.19	85.47 53.56 : 141.19	85.76 53.56 : 141.19
PFMOBA (Raw)	TM440	87.23 52.73 : 139.02	92.99 52.73 : 139.02	85.51 52.73 : 139.02	85.24 52.73 : 139.02
PFMOPra (Raw)	TM440	82.69 52.57 : 138.58	95.32 52.57 : 138.58	94.73 52.57 : 138.58	89.79 52.57 : 138.58
PFNA (Raw)	TM440	87.75 52.94 : 139.56	94.79 52.94 : 139.56	88.06 52.94 : 139.56	91.06 52.94 : 139.56
PFNS (Raw)	TM440	87.14 54.38 : 143.37	89.32 54.38 : 143.37	82.86 54.38 : 143.37	88.36 54.38 : 143.37
PFOA (Raw)	TM440	87.56 53.80 : 141.85	98.44 53.80 : 141.85	91.45 53.80 : 141.85	91.73 53.80 : 141.85
PFODA (Raw)	TM440	77.93 56.03 : 147.72	83.33 56.03 : 147.72	59.84 56.03 : 147.72	74.08 56.03 : 147.72
PFOSA (Raw)	TM440	76.32 53.10 : 140.00	88.71 53.10 : 140.00	90.68 53.10 : 140.00	89.6 53.10 : 140.00
PFPA (Raw)	TM440	91.1 53.89 : 142.06	94.11 53.89 : 142.06	92.32 53.89 : 142.06	88.73 53.89 : 142.06
PFPeS (Raw)	TM440	90.8 54.30 : 143.15	96.34 54.30 : 143.15	84.87 54.30 : 143.15	85.2 54.30 : 143.15
PFTeA (Raw)	TM440	90.96 53.06 : 139.89	100.69 53.06 : 139.89	94.96 53.06 : 139.89	98.39 53.06 : 139.89
PFTrDA (Raw)	TM440	94.46 51.70 : 136.30	102.22 51.70 : 136.30	89.57 51.70 : 136.30	94.07 51.70 : 136.30
PFTrDS (Raw)	TM440	92.08 56.24 : 148.26	98.0 56.24 : 148.26	89.81 56.24 : 148.26	90.82 56.24 : 148.26
PFUnA (Raw)	TM440	79.44 53.35 : 140.65	94.76 53.35 : 140.65	91.05 53.35 : 140.65	92.86 53.35 : 140.65
PFUnDS (Raw)	TM440	96.76 53.60 : 141.30	95.1 53.60 : 141.30	79.38 53.60 : 141.30	87.88 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

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SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3201	QC 3293
11CI-PF3OUdS (763051-92-9)	TM434	119.3 71.39 : 130.11	106.88 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	117.17 53.44 : 140.89	105.44 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	115.92 80.71 : 134.26	98.25 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	135.77 64.44 : 139.44	103.53 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	106.45 58.31 : 142.44	92.98 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	110.29 73.93 : 134.90	102.29 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	116.93 61.23 : 140.88	110.33 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	118.67 82.68 : 128.35	91.86 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	113.93 69.20 : 147.13	96.14 69.20 : 147.13
ADONA (919005-14-4)	TM434	119.07 73.23 : 135.10	98.37 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	113.91 72.95 : 133.93	96.29 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	180.04 67.47 : 136.89	83.01 67.47 : 136.89
FBSA (30334-69-1)	TM434	135.29 63.70 : 143.28	104.57 63.70 : 143.28
FHxSA (41997-13-1)	TM434	124.76 63.00 : 139.73	106.54 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	111.5 67.58 : 142.95	108.38 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	111.26 69.04 : 147.42	97.91 69.04 : 147.42
Linear PFOS (1763-23-1)	TM434	117.52 70.63 : 141.88	101.11 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	117.04 75.64 : 130.69	99.62 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	176.18 72.41 : 131.62	85.67 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	203.32 57.83 : 132.08	91.21 57.83 : 132.08
NFDHA (151772-58-6)	TM434	113.99 57.60 : 134.40	97.8 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	205.24 61.69 : 135.49	84.58 61.69 : 135.49
PFBA (375-22-4)	TM434	110.44 74.68 : 133.63	100.04 74.68 : 133.63
PFBS (375-73-5)	TM434	114.33 74.09 : 133.79	96.5 74.09 : 133.79
PFDA (335-76-2)	TM434	123.57 72.39 : 135.76	97.53 72.39 : 135.76
PFDaA (307-55-1)	TM434	117.65 58.06 : 148.21	98.41 58.06 : 148.21
PFDoS (79780-39-5)	TM434	110.07 74.76 : 130.94	105.43 74.76 : 130.94



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

		QC 3201	QC 3293
PFDS (335-77-3)	TM434	118.5 58.61 : 140.44	100.04 58.61 : 140.44
PFEESA (113507-82-7)	TM434	117.04 62.25 : 138.08	92.42 62.25 : 138.08
PFHpA (375-85-9)	TM434	116.8 75.71 : 136.46	101.68 75.71 : 136.46
PFHpS (375-92-8)	TM434	112.19 76.13 : 132.38	99.25 76.13 : 132.38
PFHxA (307-24-4)	TM434	111.65 78.16 : 133.89	95.32 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	119.98 71.24 : 136.49	94.58 71.24 : 136.49
PFHxS (355-46-4)	TM434	116.67 73.25 : 135.20	99.8 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	110.44 76.41 : 130.26	99.43 76.41 : 130.26
PFMOPrA (377-73-1)	TM434	111.44 65.74 : 128.74	108.17 65.74 : 128.74
PFNA (375-95-1)	TM434	112.66 75.01 : 133.06	94.62 75.01 : 133.06
PFNS (68259-12-1)	TM434	112.75 74.74 : 129.26	98.15 74.74 : 129.26
PFOA (335-67-1)	TM434	112.54 74.76 : 136.11	98.32 74.76 : 136.11
PFODA (16517-11-6)	TM434	103.5 53.58 : 141.25	102.11 53.58 : 141.25
PFOSA (754-91-6)	TM434	120.2 76.54 : 135.04	97.33 76.54 : 135.04
PFPA (2706-90-3)	TM434	111.15 77.89 : 134.66	101.61 77.89 : 134.66
PFPeS (2706-91-4)	TM434	106.24 69.49 : 132.71	99.07 69.49 : 132.71
PFTeA (376-06-7)	TM434	115.38 61.66 : 143.71	100.7 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	122.11 67.04 : 136.04	95.83 67.04 : 136.04
PFUnA (2058-94-8)	TM434	116.63 70.21 : 138.54	99.31 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	112.83 71.45 : 127.25	102.85 71.45 : 127.25

pH

Component	Method Code	QC 3262	QC 3264	QC 3266	QC 3268	QC 3270	QC 3272
pH	TM133	99.87 95.29 : 105.24	100.24 95.29 : 105.24	99.02 95.29 : 105.24	99.48 95.29 : 105.24	100.02 95.29 : 105.24	99.12 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

SDG: 251024-36
Client Ref.: UK-70100310

Report Number: 782396
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3212	QC 3278	QC 3288	QC 3200	QC 3258
Total Organic Carbon	TM132	97.47 93.61 : 106.00	98.16 93.61 : 106.00	97.4 93.61 : 106.00	97.92 93.61 : 106.00	97.49 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251024-36
Client Ref: UK-70100310

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Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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CH5 3US

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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 11 November 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251028-21
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 782785
Order Number: UK-70100310

This report has been revised and directly supersedes 782385 in its entirety.

We received 52 samples on Tuesday October 28, 2025 and 53 of these samples were scheduled for analysis which was completed on Tuesday November 11, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32356304	GR03-SP326-A	ES	0.10 - 0.20	24/10/2025
32356306	GR03-SP326-A	ES	0.20 - 0.30	24/10/2025
32356310	GR03-SP326-A	ESALS	0.50 - 0.60	24/10/2025
32356248	GR03-SP304-A-S1	ES	0.10 - 0.20	24/10/2025
32356277	GR03-SP304-A-S1	WT	0.10 - 0.20	24/10/2025
32356308	GR03-SP304-A-S1	ESA1	0.30 - 0.40	24/10/2025
32356331	GR03-SP304-A-S1	ESA2	0.30 - 0.40	24/10/2025
32356353	GR03-SP304-A-S1	ES	0.50 - 0.60	24/10/2025
32356371	GR03-SP304-A-S2	ESA1	0.30 - 0.40	24/10/2025
32356373	GR03-SP304-A-S2	ESA2	0.30 - 0.40	24/10/2025
32356375	GR03-SP304-B	ESALS	0.00 - 0.10	24/10/2025
32356377	GR03-SP304-B	ES	0.20 - 0.30	24/10/2025
32356250	GR03-SP304-B	ES	0.30 - 0.40	24/10/2025
32356312	GR03-SP326-B	ES	0.00 - 0.10	24/10/2025
32356314	GR03-SP326-B	ES	0.20 - 0.30	24/10/2025
32356316	GR03-SP326-B	ES	0.40 - 0.50	24/10/2025
32356252	GR03-SP304-C	ES	0.10 - 0.20	24/10/2025
32356255	GR03-SP304-C	ES	0.20 - 0.30	24/10/2025
32356257	GR03-SP304-C	ES	0.50 - 0.60	24/10/2025
32356261	GR03-SP304-C	W	0.50 - 0.60	24/10/2025
32356318	GR03-SP326-C-S1	ES	0.10 - 0.20	24/10/2025
32356320	GR03-SP326-C-S1	ESA1	0.30 - 0.40	24/10/2025
32356322	GR03-SP326-C-S1	ESA2	0.30 - 0.40	24/10/2025
32356324	GR03-SP326-C-S1	ES	0.50 - 0.60	24/10/2025
32356326	GR03-SP326-C-S1	WT	0.50 - 0.60	24/10/2025
32356329	GR03-SP326-C-S2	ESA1	0.30 - 0.40	24/10/2025
32356333	GR03-SP326-C-S2	ESA2	0.30 - 0.40	24/10/2025
32356264	GR03-SP304-D	ES	0.00 - 0.10	24/10/2025
32356268	GR03-SP304-D	ESALS	0.20 - 0.30	24/10/2025
32356270	GR03-SP304-D	ES	0.40 - 0.50	24/10/2025
32356335	GR03-SP326-D	ES	0.00 - 0.10	24/10/2025
32356337	GR03-SP326-D	ES	0.30 - 0.40	24/10/2025
32356339	GR03-SP326-D	ES	0.40 - 0.50	24/10/2025
32356272	GR03-SP304-E	ES	0.00 - 0.10	24/10/2025
32356280	GR03-SP304-E	ES	0.20 - 0.30	24/10/2025
32356282	GR03-SP304-E	ES	0.40 - 0.50	24/10/2025
32356341	GR03-SP326-E	ES	0.10 - 0.20	24/10/2025
32356343	GR03-SP326-E	ES	0.20 - 0.30	24/10/2025
32356345	GR03-SP326-E	ESALS	0.50 - 0.60	24/10/2025
32356285	GR03-SP304-F	ES	0.00 - 0.10	24/10/2025
32356288	GR03-SP304-F	ES	0.30 - 0.40	24/10/2025
32356291	GR03-SP304-F	ES	0.40 - 0.50	24/10/2025
32356347	GR03-SP326-F	ES	0.00 - 0.10	24/10/2025
32356349	GR03-SP326-F	ESALS	0.20 - 0.30	24/10/2025
32356351	GR03-SP326-F	ES	0.40 - 0.50	24/10/2025
32356294	GR03-SP304-G	ES	0.10 - 0.20	24/10/2025
32356297	GR03-SP304-G	ESALS	0.20 - 0.30	24/10/2025
32356301	GR03-SP304-G	ES	0.50 - 0.60	24/10/2025
32356355	GR03-SP326-G	ES	0.10 - 0.20	24/10/2025
32356359	GR03-SP326-G	ES	0.30 - 0.40	24/10/2025
32356362	GR03-SP326-G	WT	0.30 - 0.40	24/10/2025
32356368	GR03-SP326-G	ES	0.50 - 0.60	24/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
32356257	GR03-SP304-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32356255	GR03-SP304-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32356252	GR03-SP304-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32356316	GR03-SP326-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32356314	GR03-SP326-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32356312	GR03-SP326-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32356250	GR03-SP304-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32356377	GR03-SP304-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32356375	GR03-SP304-B	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32356373	GR03-SP304-A-S2	ESAL	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32356371	GR03-SP304-A-S2	ESAL	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32356353	GR03-SP304-A-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32356331	GR03-SP304-A-S1	ESA2	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32356308	GR03-SP304-A-S1	ESA1	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32356277	GR03-SP304-A-S1	WT	0.10 - 0.20	50ml digitube (ALE001)	PW
32356248	GR03-SP304-A-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32356310	GR03-SP326-A	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32356306	GR03-SP326-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32356304	GR03-SP326-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
PFAS in soils	All	NDPs: 0 Tests: 48			
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 4			
pH	All	NDPs: 0 Tests: 48			
Sample description	All	NDPs: 0 Tests: 46			
Total Organic Carbon	All	NDPs: 0 Tests: 48			

32356285	GR03-SP304-F	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356345	GR03-SP326-E	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356343	GR03-SP326-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356341	GR03-SP326-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356282	GR03-SP304-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356280	GR03-SP304-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356272	GR03-SP304-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356339	GR03-SP326-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356337	GR03-SP326-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356335	GR03-SP326-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356270	GR03-SP304-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356268	GR03-SP304-D	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356264	GR03-SP304-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356333	GR03-SP326-C-S2	ESAL	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356329	GR03-SP326-C-S2	ESAL	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356326	GR03-SP326-C-S1	WT	0.50 - 0.60	50ml digitube (ALE001)	PW		X							X
32356324	GR03-SP326-C-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356322	GR03-SP326-C-S1	ESAL	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356320	GR03-SP326-C-S1	ESAL	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356318	GR03-SP326-C-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X			X
32356261	GR03-SP304-C	W	0.50 - 0.60	50ml digitube (ALE001)	PW		X							



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Results Legend

- X** Test
- N** No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend X Test N No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32356368	GR03-SP326-G	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32356362	GR03-SP326-G	WT	0.30 - 0.40	50ml digitube (ALE001)	PW						
	32356359	GR03-SP326-G	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32356355	GR03-SP326-G	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32356301	GR03-SP304-G	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32356297	GR03-SP304-G	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
32356294	GR03-SP304-G	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S							
32356351	GR03-SP326-F	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S							
32356349	GR03-SP326-F	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S							
32356347	GR03-SP326-F	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S							
32356291	GR03-SP304-F	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S							
32356288	GR03-SP304-F	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S							
PFAS in soils	All	NDPs: 0 Tests: 48										
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 4										
pH	All	NDPs: 0 Tests: 48										
Sample description	All	NDPs: 0 Tests: 46										
Total Organic Carbon	All	NDPs: 0 Tests: 48										



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Sample Descriptions

Grain Sizes

very fine <0.063mm **fine** 0.063mm - 0.1mm **medium** 0.1mm - 2mm **coarse** 2mm - 10mm **very coarse** >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32356304	GR03-SP326-A	0.10 - 0.20	Dark Brown	Sandy Loam	Brick	Tile/Insulation Board
32356306	GR03-SP326-A	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32356310	GR03-SP326-A	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	None
32356248	GR03-SP304-A-S1	0.10 - 0.20	Dark Brown	Sandy Loam	Brick	Vegetation
32356308	GR03-SP304-A-S1	0.30 - 0.40	Light Brown	Sandy Loam	Brick	Vegetation
32356331	GR03-SP304-A-S1	0.30 - 0.40	Light Brown	Sandy Loam	Glass & Stones	Crushed Brick
32356353	GR03-SP304-A-S1	0.50 - 0.60	Light Brown	Loamy Sand	Crushed Brick	Stones
32356371	GR03-SP304-A-S2	0.30 - 0.40	Light Brown	Loamy Sand	Brick	Vegetation
32356373	GR03-SP304-A-S2	0.30 - 0.40	Light Brown	Sandy Loam	Stones	Vegetation
32356250	GR03-SP304-B	0.30 - 0.40	Light Brown	Sandy Loam	Brick	Stones
32356375	GR03-SP304-B	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32356377	GR03-SP304-B	0.20 - 0.30	Dark Brown	Sandy Loam	Crushed Brick	Vegetation
32356312	GR03-SP326-B	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32356314	GR03-SP326-B	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32356316	GR03-SP326-B	0.40 - 0.50	Light Brown	Silt Loam	Vegetation	None
32356252	GR03-SP304-C	0.10 - 0.20	Light Brown	Loamy Sand	Stones	Vegetation
32356255	GR03-SP304-C	0.20 - 0.30	Light Brown	Loamy Sand	Stones	Vegetation
32356257	GR03-SP304-C	0.50 - 0.60	Dark Brown	Sandy Clay	Stones	Vegetation
32356318	GR03-SP326-C-S1	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32356320	GR03-SP326-C-S1	0.30 - 0.40	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32356322	GR03-SP326-C-S1	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32356324	GR03-SP326-C-S1	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	None
32356329	GR03-SP326-C-S2	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32356333	GR03-SP326-C-S2	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32356264	GR03-SP304-D	0.00 - 0.10	Dark Brown	Loamy Sand	Stones	Vegetation
32356268	GR03-SP304-D	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32356270	GR03-SP304-D	0.40 - 0.50	Light Brown	Loamy Sand	Stones	Vegetation
32356335	GR03-SP326-D	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32356337	GR03-SP326-D	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32356339	GR03-SP326-D	0.40 - 0.50	Light Brown	Clay Loam	Vegetation	None
32356272	GR03-SP304-E	0.00 - 0.10	Dark Brown	Silty Clay	Stones	Vegetation
32356280	GR03-SP304-E	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Stones	Fibres
32356282	GR03-SP304-E	0.40 - 0.50	Light Brown	Silty Clay	Stones	None
32356341	GR03-SP326-E	0.10 - 0.20	Light Brown	Silt Loam	Stones	Vegetation
32356343	GR03-SP326-E	0.20 - 0.30	Light Brown	Sandy Silt Loam	Stones	Vegetation
32356345	GR03-SP326-E	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32356285	GR03-SP304-F	0.00 - 0.10	Dark Brown	Loamy Sand	Stones	Vegetation
32356288	GR03-SP304-F	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	Brick
32356291	GR03-SP304-F	0.40 - 0.50	Light Brown	Sandy Loam	Crushed Brick	Stones



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			Colour	Description	Inclusions	Inclusions 2
32356347	GR03-SP326-F	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32356349	GR03-SP326-F	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32356351	GR03-SP326-F	0.40 - 0.50	Light Brown	Silt Loam	Stones	Vegetation
32356294	GR03-SP304-G	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32356297	GR03-SP304-G	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32356301	GR03-SP304-G	0.50 - 0.60	Light Brown	Sandy Loam	Brick	Stones
32356355	GR03-SP326-G	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32356359	GR03-SP326-G	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32356368	GR03-SP326-G	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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Results Legend			Customer Sample Ref.		GR03-SP326-A	GR03-SP326-A	GR03-SP326-A	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
* Subcontracted - refer to subcontractor report for accreditation status.					32356304	32356306	32356310	32356248	32356277	32356308
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	WT	ESA1
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



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Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-A	GR03-SP326-A	GR03-SP326-A	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
* Subcontracted - refer to subcontractor report for accreditation status.					32356304	32356306	32356310	32356248	32356277	32356308
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	WT	ESA1
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	23	21	16	13				11
Soil Organic Matter (SOM)	<0.35 %	TM132	19.3	7.95	0.919	3.29				3.45
pH	1 pH Units	TM133	6.44	6.92	7.1	8.31				8.58
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8				<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	0.823				<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8				<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1				<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5



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Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-A	GR03-SP326-A	GR03-SP326-A	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
Subcontracted - refer to subcontractor report for accreditation status.					32356304	32356306	32356310	32356248	32356277	32356308
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	WT	ESA1
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		0.888
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.61	3.5	2.8	2.51		2.65
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S2	GR03-SP304-A-S2	GR03-SP304-B	GR03-SP304-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
* Subcontracted - refer to subcontractor report for accreditation status.					32356331	32356353	32356371	32356373	32356375	32356377
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ES	ESA1	ESA2	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			14	11	11	12	15	14
Soil Organic Matter (SOM)	<0.35 %	TM132			2.6	1.71	2.22	2.05	6.93	4.02
pH	1 pH Units	TM133			8.47	8.8	8.68	8.69	8.34	8.8
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	1.18	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.73	1.99	2.51	2.19	1.59	1.65
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.	GR03-SP304-B	GR03-SP326-B	GR03-SP326-B	GR03-SP326-B	GR03-SP304-C	GR03-SP304-C
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	11	21	21	17	11	15	
Soil Organic Matter (SOM)	<0.35 %	TM132	3.33	21.6	7.12	1.42	3.69	5.34	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	10	6.77	6.96	6.96	8.29	8.38	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	0.664	0.802	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.61	3.09	3.57	2.73	1.35	1.91	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP304-C	GR03-SP304-C	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
* Subcontracted - refer to subcontractor report for accreditation status.					32356257	32356261	32356318	32356320	32356322	32356324
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	W	ES	ESA1	ESA2	ES
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.004				
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.002				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.01				
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.002				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.002				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.002				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.006				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.002				
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.002				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.004				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.002				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.002				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.002				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.01				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.002				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.002				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.002				
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.0013				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.002				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.002				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.002				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.004				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.01				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.004				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.004				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.01				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.0013				
Branched PFOS	<0.00065 µg/l	TM434				<0.0013				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.004				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.004				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.002				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.002				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.002				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP304-C	GR03-SP304-C	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1
# ISO17025 accredited. m mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4* @ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356257 ES	0.50 - 0.60 Process Water (PR) 24/10/2025 28/10/2025 251028-21 32356261 W	0.10 - 0.20 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356318 ES	0.30 - 0.40 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356320 ESA1	0.30 - 0.40 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356322 ESA2	0.50 - 0.60 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356324 ES
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.004				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.004				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.006				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.004				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.004				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.002				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.004				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.004				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.002				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.02				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.002				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.02				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.002				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.002				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.02				
Total PFOS	<0.00065 µg/l	TM434				<0.0013				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.18				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.002				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.002				
Moisture Content Ratio (% of as received sample)	%	PM024			12		23	21	19	15
Soil Organic Matter (SOM)	<0.35 %	TM132			1.14		11.2	4.71	1.93	0.809
pH	1 pH Units	TM133			8.64		6.22	6.69	6.99	7.05
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP304-C	GR03-SP304-C	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	28/10/2025 251028-21 32356257 ES	0.50 - 0.60 Soil/Solid (S) 24/10/2025	0.50 - 0.60 Process Water (PR) 24/10/2025	0.10 - 0.20 Soil/Solid (S) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.50 - 0.60 Soil/Solid (S) 24/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			<0.5		3.47	2.95	2.85	1.82
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

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CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-C-S1	GR03-SP326-C-S2	GR03-SP326-C-S2	GR03-SP304-D	GR03-SP304-D	GR03-SP304-D
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Process Water (PR) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.00 - 0.10 Soil/Solid (S) 24/10/2025	0.20 - 0.30 Soil/Solid (S) 24/10/2025	0.40 - 0.50 Soil/Solid (S) 24/10/2025	
diss.filt Dissolved / filtered sample.	tot.unfilt Total / unfiltered sample.	* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	*** 6.2 FTAB (see appendix)	1-4**@ Sample deviation (see appendix)								
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002						
PFMOPra (377-73-1)	<0.001 µg/l	TM434		<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434		<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434		<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		<0.00065						
Branched PFOS	<0.00065 µg/l	TM434		<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.	GR03-SP326-C-S1	GR03-SP326-C-S2	GR03-SP326-C-S2	GR03-SP304-D	GR03-SP304-D	GR03-SP304-D
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@ Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002						
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002						
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003						
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002						
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002						
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001						
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002						
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002						
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001						
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01						
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001						
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01						
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001						
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001						
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01						
Total PFOS	<0.00065 µg/l	TM434	<0.00065						
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09						
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001						
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001						
Moisture Content Ratio (% of as received sample)	%	PM024		20	20	13	14	13	
Soil Organic Matter (SOM)	<0.35 %	TM132		2.71	3.52	5.74	5.43	3.93	
				#	#	#	#	#	
pH	1 pH Units	TM133		7.05	6.97	8.31	8.19	8.71	
				M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	0.803	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.	GR03-SP326-C-S1	GR03-SP326-C-S2	GR03-SP326-C-S2	GR03-SP304-D	GR03-SP304-D	GR03-SP304-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Process Water (PR) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.00 - 0.10 Soil/Solid (S) 24/10/2025	0.20 - 0.30 Soil/Solid (S) 24/10/2025	0.40 - 0.50 Soil/Solid (S) 24/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
*** 6:2 FTAB (see appendix)				32356326	32356329	32356333	32356264	32356268	32356270
1-4**@ Sample deviation (see appendix)				WT	ESA1	ESA2	ES	ESALS	ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.5	4.23	1.36	1.28	4.06
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-D	GR03-SP326-D	GR03-SP326-D	GR03-SP304-E	GR03-SP304-E	GR03-SP304-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
* Subcontracted - refer to subcontractor report for accreditation status.					32356335	32356337	32356339	32356272	32356280	32356282
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			23	20	17	20	19	21
Soil Organic Matter (SOM)	<0.35 %	TM132			6.91	4.52	2.03	3.81	3.76	0.841
pH	1 pH Units	TM133			6.75	7.87	7.8	7.44	7.36	6.58
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	0.804	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.9	2.91	3.16	5.58	8.53	8.59
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	0.933	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.	GR03-SP326-E	GR03-SP326-E	GR03-SP326-E	GR03-SP304-F	GR03-SP304-F	GR03-SP304-F
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Depth (m)	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50			
Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
Date Sampled	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025			
Sample Time									
Date Received	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025			
SDG Ref	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21			
Lab Sample No.(s)	32356341	32356343	32356345	32356285	32356288	32356291			
AGS Reference	ES	ES	ESALS	ES	ES	ES			
Component	LOD/Units	Method	24	18	17	11	11	13	
Moisture Content Ratio (% of as received sample)	%	PM024							
Soil Organic Matter (SOM)	<0.35 %	TM132	6.47	1.66	0.669	3.53	2.28	3.03	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.3	7.46	7.65	8.23	8.88	9.34	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	1.02	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.82	3.01	2.62	0.877	1.33	1.57	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-F	GR03-SP326-F	GR03-SP326-F	GR03-SP304-G	GR03-SP304-G	GR03-SP304-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21	251028-21	251028-21
* Subcontracted - refer to subcontractor report for accreditation status.					32356347	32356349	32356351	32356294	32356297	32356301
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			24	20	16	16	14	12
Soil Organic Matter (SOM)	<0.35 %	TM132			7.21	8.45	0.741	5.52	4.05	5.26
					#	#	#	#	#	#
pH	1 pH Units	TM133			5.91	6.97	7.15	8.32	8.42	8.89
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.888	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.75	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.5	3.04	2.47	1.2	1.81	6.49
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	22.9	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-21
Client Ref.: UK-70100310

Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-G	GR03-SP326-G	GR03-SP326-G	GR03-SP326-G		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60		
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)		
aq	Aqueous / settled sample.				24/10/2025	24/10/2025	24/10/2025	24/10/2025		
diss.filt	Dissolved / filtered sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025		
tot.unfilt	Total / unfiltered sample.				251028-21	251028-21	251028-21	251028-21		
* Subcontracted - refer to subcontractor report for accreditation status.					32356355	32356359	32356362	32356368		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES		
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9Cl-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



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Report Number: 782785
Location: Thornton Phase 3

Superseded Report: 782385

Results Legend			Customer Sample Ref.		GR03-SP326-G	GR03-SP326-G	GR03-SP326-G	GR03-SP326-G		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20 Soil/Solid (S) 24/10/2025	0.30 - 0.40 Soil/Solid (S) 24/10/2025	0.30 - 0.40 Process Water (PR) 24/10/2025	0.50 - 0.60 Soil/Solid (S) 24/10/2025			
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
***	6:2 FTAB (see appendix)									
1-4**	@ Sample deviation (see appendix)									
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	24		21		17			
Soil Organic Matter (SOM)	<0.35 %	TM132	6.48	#	4	#	1.31	#		
pH	1 pH Units	TM133	6.63	M	6.83	M	7.65	M		
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8		<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		0.692		<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8		<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1		<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5			



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Results Legend			Customer Sample Ref.		GR03-SP326-G	GR03-SP326-G	GR03-SP326-G	GR03-SP326-G		
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356355 ES	0.30 - 0.40 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356359 ES	0.30 - 0.40 Process Water (PR) 24/10/2025 28/10/2025 251028-21 32356362 WT	0.50 - 0.60 Soil/Solid (S) 24/10/2025 28/10/2025 251028-21 32356368 ES		
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	0.733		<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			85.8	181		152		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5		
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4		
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8		
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6		
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6		
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6		
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7		
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5		



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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32356304	32356306	32356310	32356248	32356277	32356308	32356331	32356353	32356371	32356373
	GR03-SP326-A	GR03-SP326-A	GR03-SP326-A	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S1	GR03-SP304-A-S2	GR03-SP304-A-S2
	ES	ES	ESALS	ES	WT	ESA1	ESA2	ES	ESA1	ESA2
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	07-Nov-2025	06-Nov-2025	06-Nov-2025	07-Nov-2025		07-Nov-2025	10-Nov-2025	06-Nov-2025	03-Nov-2025	03-Nov-2025
PFAS Liquids (Full Suite)					06-Nov-2025					
pH	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025		04-Nov-2025	04-Nov-2025	30-Oct-2025	30-Oct-2025	30-Oct-2025
Sample description	03-Nov-2025	03-Nov-2025	03-Nov-2025	28-Oct-2025		28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025
Total Organic Carbon	06-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025		11-Nov-2025	06-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32356250	32356375	32356377	32356312	32356314	32356316	32356252	32356255	32356257	32356261
	GR03-SP304-B	GR03-SP304-B	GR03-SP304-B	GR03-SP326-B	GR03-SP326-B	GR03-SP326-B	GR03-SP304-C	GR03-SP304-C	GR03-SP304-C	GR03-SP304-C
	ES	ESALS	ES	ES	ES	ES	ES	ES	ES	W
	0.30 - 0.40	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	07-Nov-2025	03-Nov-2025	31-Oct-2025	07-Nov-2025	07-Nov-2025	10-Nov-2025	10-Nov-2025	10-Nov-2025	07-Nov-2025	
PFAS Liquids (Full Suite)										06-Nov-2025
pH	04-Nov-2025	30-Oct-2025	30-Oct-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	
Sample description	28-Oct-2025	28-Oct-2025	28-Oct-2025	03-Nov-2025	03-Nov-2025	28-Oct-2025	29-Oct-2025	29-Oct-2025	03-Nov-2025	
Total Organic Carbon	11-Nov-2025	04-Nov-2025	04-Nov-2025	06-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	
Lab Sample No(s) Customer Sample Ref.	32356318	32356320	32356322	32356324	32356326	32356329	32356333	32356264	32356268	32356270
	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S2	GR03-SP326-C-S2	GR03-SP304-D	GR03-SP304-D	GR03-SP304-D
	ES	ESA1	ESA2	ES	WT	ESA1	ESA2	ES	ESALS	ES
	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	07-Nov-2025	07-Nov-2025	10-Nov-2025	07-Nov-2025		10-Nov-2025	10-Nov-2025	07-Nov-2025	06-Nov-2025	10-Nov-2025
PFAS Liquids (Full Suite)					03-Nov-2025					
pH	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025		31-Oct-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025
Sample description	03-Nov-2025	03-Nov-2025	28-Oct-2025	03-Nov-2025		30-Oct-2025	28-Oct-2025	03-Nov-2025	03-Nov-2025	29-Oct-2025
Total Organic Carbon	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32356335	32356337	32356339	32356272	32356280	32356282	32356341	32356343	32356345	32356285
	GR03-SP326-D	GR03-SP326-D	GR03-SP326-D	GR03-SP304-E	GR03-SP304-E	GR03-SP304-E	GR03-SP326-E	GR03-SP326-E	GR03-SP326-E	GR03-SP304-F
	ES	ES	ES	ES	ES	ES	ES	ES	ESALS	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	10-Nov-2025	07-Nov-2025	10-Nov-2025	10-Nov-2025	07-Nov-2025	10-Nov-2025	10-Nov-2025	10-Nov-2025	07-Nov-2025	07-Nov-2025
pH	31-Oct-2025	04-Nov-2025	31-Oct-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	31-Oct-2025	04-Nov-2025
Sample description	30-Oct-2025	30-Oct-2025	30-Oct-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025	29-Oct-2025	28-Oct-2025	30-Oct-2025	03-Nov-2025
Total Organic Carbon	11-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32356288	32356291	32356347	32356349	32356351	32356294	32356297	32356301	32356355	32356359
	GR03-SP304-F	GR03-SP304-F	GR03-SP326-F	GR03-SP326-F	GR03-SP326-F	GR03-SP304-G	GR03-SP304-G	GR03-SP304-G	GR03-SP326-G	GR03-SP326-G
	ES	ES	ES	ESALS	ES	ES	ESALS	ES	ES	ES
	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	07-Nov-2025	10-Nov-2025	06-Nov-2025	06-Nov-2025	10-Nov-2025	07-Nov-2025	10-Nov-2025	10-Nov-2025	03-Nov-2025	03-Nov-2025
pH	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	30-Oct-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	30-Oct-2025	30-Oct-2025
Sample description	03-Nov-2025	28-Oct-2025	03-Nov-2025	03-Nov-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025
Total Organic Carbon	06-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	04-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	04-Nov-2025	04-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32356362	32356368								
	GR03-SP326-G	GR03-SP326-G								
	WT	ES								
	0.30 - 0.40	0.50 - 0.60								
	Process	Soil/Solid (S)								
PFAS in soils		03-Nov-2025								
PFAS Liquids (Full Suite)	03-Nov-2025									
pH		30-Oct-2025								
Sample description		28-Oct-2025								
Total Organic Carbon		04-Nov-2025								



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3289	QC 3282	QC 3268	QC 3216	QC 3256	QC 3265
10:2 FTS (Raw)	TM440	131.47 53.10 : 140.00	119.75 53.10 : 140.00	74.06 53.10 : 140.00	77.45 53.10 : 140.00	81.18 53.10 : 140.00	85.66 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	103.4 53.56 : 141.19	102.41 53.56 : 141.19	78.27 53.56 : 141.19	84.52 53.56 : 141.19	73.89 53.56 : 141.19	109.6 53.56 : 141.19
3:3 FTCA (Raw)	TM440	83.15 50.54 : 133.25	89.66 50.54 : 133.25	85.7 50.54 : 133.25	90.28 50.54 : 133.25	91.56 50.54 : 133.25	98.16 50.54 : 133.25
4:2 FTS (Raw)	TM440	115.58 56.34 : 145.91	124.46 56.34 : 145.91	95.45 56.34 : 145.91	92.72 56.34 : 145.91	85.54 56.34 : 145.91	101.09 56.34 : 145.91
5:3 FTCA (Raw)	TM440	104.72 52.66 : 130.08	107.56 52.66 : 130.08	88.15 52.66 : 130.08	92.77 52.66 : 130.08	69.9 52.66 : 130.08	93.83 52.66 : 130.08
6:2 FTAB (Raw)	TM440	39.44 38.50 : 101.50	49.76 38.50 : 101.50	35.49 38.50 : 101.50	34.6 38.50 : 101.50	42.05 38.50 : 101.50	38.41 38.50 : 101.50
6:2 FTS (Raw)	TM440	105.68 54.79 : 144.46	121.54 54.79 : 144.46	86.03 54.79 : 144.46	85.43 54.79 : 144.46	83.18 54.79 : 144.46	86.66 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.13 48.60 : 128.14	112.04 48.60 : 128.14	85.13 48.60 : 128.14	91.93 48.60 : 128.14	86.62 48.60 : 128.14	88.04 48.60 : 128.14
8:2 diPAP (Raw)	TM440	94.46 56.03 : 147.72	100.83 56.03 : 147.72	99.38 56.03 : 147.72	98.58 56.03 : 147.72	84.55 56.03 : 147.72	102.53 56.03 : 147.72
8:2 FTS (Raw)	TM440	113.09 55.74 : 146.96	112.74 55.74 : 146.96	85.47 55.74 : 146.96	87.93 55.74 : 146.96	92.89 55.74 : 146.96	83.84 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	96.86 54.59 : 143.91	94.76 54.59 : 143.91	83.92 54.59 : 143.91	90.32 54.59 : 143.91	94.8 54.59 : 143.91	96.48 54.59 : 143.91
ADONA (Raw)	TM440	99.33 54.01 : 132.33	106.16 54.01 : 132.33	90.61 54.01 : 132.33	89.98 54.01 : 132.33	87.15 54.01 : 132.33	97.75 54.01 : 132.33
Branched PFOS (Raw)	TM440	102.16 54.09 : 142.61	103.64 54.09 : 142.61	85.82 54.09 : 142.61	89.37 54.09 : 142.61	93.81 54.09 : 142.61	100.9 54.09 : 142.61
EtFOSAA (Raw)	TM440	103.76 52.48 : 138.36	103.59 52.48 : 138.36	97.64 52.48 : 138.36	100.5 52.48 : 138.36	86.49 52.48 : 138.36	87.54 52.48 : 138.36
EtFOSE (Raw)	TM440	107.04 57.05 : 145.29	107.67 57.05 : 145.29	95.1 57.05 : 145.29	92.1 57.05 : 145.29	91.84 57.05 : 145.29	95.63 57.05 : 145.29
FBSA (Raw)	TM440	87.82 49.51 : 125.13	95.35 49.51 : 125.13	85.71 49.51 : 125.13	86.73 49.51 : 125.13	84.37 49.51 : 125.13	86.88 49.51 : 125.13
FHxSA (Raw)	TM440	97.33 50.38 : 132.82	106.09 50.38 : 132.82	84.88 50.38 : 132.82	83.85 50.38 : 132.82	73.33 50.38 : 132.82	91.75 50.38 : 132.82
HFPO-DA (Raw)	TM440	109.57 53.47 : 140.98	118.53 53.47 : 140.98	91.77 53.47 : 140.98	92.34 53.47 : 140.98	84.8 53.47 : 140.98	92.61 53.47 : 140.98
HFPO-TA (Raw)	TM440	117.02 54.77 : 144.39	119.71 54.77 : 144.39	97.3 54.77 : 144.39	99.32 54.77 : 144.39	96.33 54.77 : 144.39	102.94 54.77 : 144.39
L-PFOS (Raw)	TM440	102.16 54.09 : 142.61	103.64 54.09 : 142.61	85.82 54.09 : 142.61	89.37 54.09 : 142.61	93.81 54.09 : 142.61	100.9 54.09 : 142.61
MeFOSAA (Raw)	TM440	89.07 53.02 : 139.78	92.38 53.02 : 139.78	99.69 53.02 : 139.78	99.63 53.02 : 139.78	87.12 53.02 : 139.78	100.11 53.02 : 139.78
MeFOSE (Raw)	TM440	112.41 54.99 : 144.97	119.62 54.99 : 144.97	92.86 54.99 : 144.97	89.22 54.99 : 144.97	84.42 54.99 : 144.97	92.24 54.99 : 144.97
N-EtFOSA (Raw)	TM440	105.99 59.56 : 132.93	110.11 59.56 : 132.93	85.65 59.56 : 132.93	87.03 59.56 : 132.93	86.85 59.56 : 132.93	98.28 59.56 : 132.93
NFDHA (Raw)	TM440	92.45 57.35 : 151.20	107.05 57.35 : 151.20	90.11 57.35 : 151.20	88.59 57.35 : 151.20	81.76 57.35 : 151.20	91.97 57.35 : 151.20
N-MeFOSA (Raw)	TM440	100.93 59.19 : 133.01	102.99 59.19 : 133.01	88.42 59.19 : 133.01	84.11 59.19 : 133.01	89.43 59.19 : 133.01	98.43 59.19 : 133.01
PFBA (Raw)	TM440	100.87 52.69 : 138.91	106.69 52.69 : 138.91	91.6 52.69 : 138.91	90.87 52.69 : 138.91	85.79 52.69 : 138.91	93.29 52.69 : 138.91



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PFAS in soils

		QC 3289	QC 3282	QC 3268	QC 3216	QC 3256	QC 3265
PFBS (Raw)	TM440	101.85 53.31 : 140.54	101.4 53.31 : 140.54	98.79 53.31 : 140.54	91.29 53.31 : 140.54	82.18 53.31 : 140.54	93.79 53.31 : 140.54
PFDA (Raw)	TM440	106.27 53.39 : 140.76	117.33 53.39 : 140.76	88.81 53.39 : 140.76	89.81 53.39 : 140.76	84.03 53.39 : 140.76	90.96 53.39 : 140.76
PFDoA (Raw)	TM440	102.66 52.85 : 139.34	110.31 52.85 : 139.34	90.46 52.85 : 139.34	90.31 52.85 : 139.34	83.07 52.85 : 139.34	100.08 52.85 : 139.34
PFDoS (Raw)	TM440	107.61 55.29 : 145.76	110.68 55.29 : 145.76	82.22 55.29 : 145.76	87.48 55.29 : 145.76	60.62 55.29 : 145.76	100.93 55.29 : 145.76
PFDS (Raw)	TM440	101.64 52.94 : 139.56	100.58 52.94 : 139.56	79.65 52.94 : 139.56	81.6 52.94 : 139.56	76.23 52.94 : 139.56	104.17 52.94 : 139.56
PFecHS (Raw)	TM440	103.28 50.75 : 133.80	97.68 50.75 : 133.80	84.94 50.75 : 133.80	82.67 50.75 : 133.80	83.27 50.75 : 133.80	90.72 50.75 : 133.80
PFEESA (Raw)	TM440	98.37 50.87 : 134.12	99.53 50.87 : 134.12	91.27 50.87 : 134.12	87.8 50.87 : 134.12	81.11 50.87 : 134.12	85.33 50.87 : 134.12
PFHpA (Raw)	TM440	104.49 52.61 : 138.69	109.76 52.61 : 138.69	96.11 52.61 : 138.69	92.31 52.61 : 138.69	89.33 52.61 : 138.69	95.13 52.61 : 138.69
PFHpS (Raw)	TM440	96.77 55.29 : 145.76	102.56 55.29 : 145.76	88.59 55.29 : 145.76	93.25 55.29 : 145.76	89.57 55.29 : 145.76	98.09 55.29 : 145.76
PFHxA (Raw)	TM440	98.71 54.05 : 142.50	111.68 54.05 : 142.50	92.7 54.05 : 142.50	92.18 54.05 : 142.50	85.92 54.05 : 142.50	96.43 54.05 : 142.50
PFHxDA (Raw)	TM440	96.86 52.03 : 137.17	104.62 52.03 : 137.17	92.85 52.03 : 137.17	112.63 52.03 : 137.17	98.73 52.03 : 137.17	107.21 52.03 : 137.17
PFHxS (Raw)	TM440	106.41 53.56 : 141.19	106.85 53.56 : 141.19	85.47 53.56 : 141.19	85.76 53.56 : 141.19	84.16 53.56 : 141.19	91.12 53.56 : 141.19
PFMOBA (Raw)	TM440	87.2 52.73 : 139.02	94.61 52.73 : 139.02	85.51 52.73 : 139.02	85.24 52.73 : 139.02	86.91 52.73 : 139.02	90.65 52.73 : 139.02
PFMOPra (Raw)	TM440	106.99 52.57 : 138.58	89.76 52.57 : 138.58	94.73 52.57 : 138.58	89.79 52.57 : 138.58	100.58 52.57 : 138.58	94.4 52.57 : 138.58
PFNA (Raw)	TM440	106.15 52.94 : 139.56	106.9 52.94 : 139.56	88.06 52.94 : 139.56	91.06 52.94 : 139.56	85.92 52.94 : 139.56	86.95 52.94 : 139.56
PFNS (Raw)	TM440	102.92 54.38 : 143.37	100.33 54.38 : 143.37	82.86 54.38 : 143.37	88.36 54.38 : 143.37	91.33 54.38 : 143.37	92.38 54.38 : 143.37
PFOA (Raw)	TM440	98.31 53.80 : 141.85	106.65 53.80 : 141.85	91.45 53.80 : 141.85	91.73 53.80 : 141.85	92.17 53.80 : 141.85	94.6 53.80 : 141.85
PFODA (Raw)	TM440	87.63 56.03 : 147.72	101.7 56.03 : 147.72	59.84 56.03 : 147.72	74.08 56.03 : 147.72	67.77 56.03 : 147.72	72.57 56.03 : 147.72
PFOSA (Raw)	TM440	98.15 53.10 : 140.00	100.33 53.10 : 140.00	90.68 53.10 : 140.00	89.6 53.10 : 140.00	87.79 53.10 : 140.00	90.8 53.10 : 140.00
PFPA (Raw)	TM440	92.96 53.89 : 142.06	102.33 53.89 : 142.06	92.32 53.89 : 142.06	88.73 53.89 : 142.06	87.48 53.89 : 142.06	98.87 53.89 : 142.06
PFPeS (Raw)	TM440	102.64 54.30 : 143.15	100.57 54.30 : 143.15	84.87 54.30 : 143.15	85.2 54.30 : 143.15	85.81 54.30 : 143.15	82.32 54.30 : 143.15
PFTeA (Raw)	TM440	109.56 53.06 : 139.89	118.93 53.06 : 139.89	94.96 53.06 : 139.89	98.39 53.06 : 139.89	90.24 53.06 : 139.89	94.72 53.06 : 139.89
PFTrDA (Raw)	TM440	103.95 51.70 : 136.30	114.96 51.70 : 136.30	89.57 51.70 : 136.30	94.07 51.70 : 136.30	93.31 51.70 : 136.30	99.08 51.70 : 136.30
PFTrDS (Raw)	TM440	109.87 56.24 : 148.26	104.88 56.24 : 148.26	89.81 56.24 : 148.26	90.82 56.24 : 148.26	65.37 56.24 : 148.26	103.54 56.24 : 148.26
PFUnA (Raw)	TM440	100.27 53.35 : 140.65	115.15 53.35 : 140.65	91.05 53.35 : 140.65	92.86 53.35 : 140.65	88.12 53.35 : 140.65	97.92 53.35 : 140.65
PFUnDS (Raw)	TM440	104.38 53.60 : 141.30	107.49 53.60 : 141.30	79.38 53.60 : 141.30	87.88 53.60 : 141.30	64.62 53.60 : 141.30	106.45 53.60 : 141.30



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PFAS in soils

Component	Method Code	QC 3284
10:2 FTS (Raw)	TM440	95.59 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	96.45 53.56 : 141.19
3:3 FTCA (Raw)	TM440	91.67 50.54 : 133.25
4:2 FTS (Raw)	TM440	97.24 56.34 : 145.91
5:3 FTCA (Raw)	TM440	89.62 52.66 : 130.08
6:2 FTAB (Raw)	TM440	40.66 38.50 : 101.50
6:2 FTS (Raw)	TM440	92.08 54.79 : 144.46
7:3 FTCA (Raw)	TM440	76.8 48.60 : 128.14
8:2 diPAP (Raw)	TM440	100.28 56.03 : 147.72
8:2 FTS (Raw)	TM440	93.89 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	94.53 54.59 : 143.91
ADONA (Raw)	TM440	101.76 54.01 : 132.33
Branched PFOS (Raw)	TM440	100.53 54.09 : 142.61
EtFOSAA (Raw)	TM440	84.54 52.48 : 138.36
EtFOSE (Raw)	TM440	98.4 57.05 : 145.29
FBSA (Raw)	TM440	87.6 49.51 : 125.13
FHxSA (Raw)	TM440	87.04 50.38 : 132.82
HFPO-DA (Raw)	TM440	101.36 53.47 : 140.98
HFPO-TA (Raw)	TM440	109.67 54.77 : 144.39
L-PFOS (Raw)	TM440	100.53 54.09 : 142.61
MeFOSAA (Raw)	TM440	98.3 53.02 : 139.78
MeFOSE (Raw)	TM440	93.45 54.99 : 144.97
N-EtFOSA (Raw)	TM440	99.68 59.56 : 132.93
NFDHA (Raw)	TM440	100.64 57.35 : 151.20
N-MeFOSA (Raw)	TM440	96.56 59.19 : 133.01
PFBA (Raw)	TM440	97.63 52.69 : 138.91
PFBS (Raw)	TM440	101.74 53.31 : 140.54



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PFAS in soils

		QC 3284
PFDA (Raw)	TM440	100.35 53.39 : 140.76
PFDoA (Raw)	TM440	97.63 52.85 : 139.34
PFDoS (Raw)	TM440	100.24 55.29 : 145.76
PFDS (Raw)	TM440	91.55 52.94 : 139.56
PFecHS (Raw)	TM440	91.33 50.75 : 133.80
PFEESA (Raw)	TM440	93.77 50.87 : 134.12
PFHpA (Raw)	TM440	96.28 52.61 : 138.69
PFHpS (Raw)	TM440	101.35 55.29 : 145.76
PFHxA (Raw)	TM440	96.08 54.05 : 142.50
PFHxDA (Raw)	TM440	94.15 52.03 : 137.17
PFHxS (Raw)	TM440	90.51 53.56 : 141.19
PFMOBA (Raw)	TM440	96.07 52.73 : 139.02
PFMOPra (Raw)	TM440	88.9 52.57 : 138.58
PFNA (Raw)	TM440	91.99 52.94 : 139.56
PFNS (Raw)	TM440	97.44 54.38 : 143.37
PFOA (Raw)	TM440	96.73 53.80 : 141.85
PFODA (Raw)	TM440	72.18 56.03 : 147.72
PFOSA (Raw)	TM440	98.52 53.10 : 140.00
PFPA (Raw)	TM440	95.3 53.89 : 142.06
PFPeS (Raw)	TM440	88.39 54.30 : 143.15
PFTeA (Raw)	TM440	99.33 53.06 : 139.89
PFTrDA (Raw)	TM440	94.23 51.70 : 136.30
PFTrDS (Raw)	TM440	103.86 56.24 : 148.26
PFUnA (Raw)	TM440	102.03 53.35 : 140.65
PFUnDS (Raw)	TM440	101.6 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3251	QC 3218
11CI-PF3OUdS (763051-92-9)	TM434	105.19 62.16 : 138.51	131.28 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	123.35 89.89 : 130.69	112.4 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	102.33 66.54 : 140.56	94.97 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	105.3 60.34 : 133.39	135.43 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	94.03 59.12 : 129.56	85.47 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	97.38 67.48 : 129.58	98.81 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	124.53 79.83 : 133.08	144.12 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	104.73 81.70 : 132.18	93.52 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	108.23 71.98 : 136.03	94.0 69.20 : 147.13
ADONA (919005-14-4)	TM434	107.06 70.14 : 142.14	94.76 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	103.96 67.04 : 131.16	94.72 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	83.64 67.92 : 135.38	71.3 67.47 : 136.89
FBSA (30334-69-1)	TM434	116.85 58.08 : 137.20	110.28 63.70 : 143.28
FHxSA (41997-13-1)	TM434	111.83 71.81 : 148.16	136.78 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	98.57 57.03 : 123.70	107.89 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	103.36 55.94 : 147.48	90.28 69.04 : 147.42
Linear PFOS (1763-23-1)	TM434	110.49 69.95 : 145.18	93.89 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	109.4 68.44 : 128.29	92.62 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	85.47 70.83 : 132.00	79.33 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	84.59 59.26 : 122.86	79.48 57.83 : 132.08
NFDHA (151772-58-6)	TM434	98.3 59.99 : 133.56	101.41 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	80.49 62.71 : 118.96	73.89 61.69 : 135.49
PFBA (375-22-4)	TM434	101.4 67.84 : 130.39	96.97 74.68 : 133.63
PFBS (375-73-5)	TM434	116.86 90.25 : 126.25	94.33 74.09 : 133.79
PFDA (335-76-2)	TM434	105.57 68.94 : 132.99	95.54 72.39 : 135.76
PFDaA (307-55-1)	TM434	104.07 66.19 : 135.04	93.12 58.06 : 148.21
PFDoS (79780-39-5)	TM434	101.7 65.90 : 146.45	124.48 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3251	QC 3218
PFDS (335-77-3)	TM434	109.11 64.84 : 138.49	110.33 58.61 : 140.44
PFEESA (113507-82-7)	TM434	114.43 67.24 : 129.19	93.41 62.25 : 138.08
PFHpA (375-85-9)	TM434	106.51 72.89 : 141.36	95.24 75.71 : 136.46
PFHpS (375-92-8)	TM434	107.98 72.19 : 155.36	90.05 76.13 : 132.38
PFHxA (307-24-4)	TM434	100.35 71.79 : 135.84	96.87 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	105.85 89.96 : 128.14	88.73 71.24 : 136.49
PFHxS (355-46-4)	TM434	115.14 84.41 : 134.44	96.28 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	134.6 84.99 : 139.74	95.56 76.41 : 130.26
PFMOPrA (377-73-1)	TM434	120.63 80.40 : 136.73	104.53 65.74 : 128.74
PFNA (375-95-1)	TM434	100.89 68.61 : 128.99	92.45 75.01 : 133.06
PFNS (68259-12-1)	TM434	118.6 70.70 : 130.93	95.72 74.74 : 129.26
PFOA (335-67-1)	TM434	120.58 74.09 : 143.61	96.21 74.76 : 136.11
PFODA (16517-11-6)	TM434	98.93 68.70 : 175.88	100.46 53.58 : 141.25
PFOSA (754-91-6)	TM434	108.74 67.59 : 130.51	95.17 76.54 : 135.04
PFPA (2706-90-3)	TM434	119.88 74.20 : 140.58	96.68 77.89 : 134.66
PFPeS (2706-91-4)	TM434	113.0 76.19 : 137.91	94.09 69.49 : 132.71
PFTeA (376-06-7)	TM434	116.18 66.36 : 144.96	97.17 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	108.61 71.98 : 130.25	94.65 67.04 : 136.04
PFUnA (2058-94-8)	TM434	98.31 65.55 : 141.45	92.65 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	99.19 85.84 : 139.76	125.54 71.45 : 127.25

pH

Component	Method Code	QC 3270	QC 3272	QC 3248	QC 3250	QC 3252
pH	TM133	100.46 95.29 : 105.24	99.12 95.29 : 105.24	99.1 95.29 : 105.24	98.82 95.29 : 105.24	99.06 95.29 : 105.24

Total Organic Carbon



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Total Organic Carbon

Component	Method Code	QC 3291	QC 3202	QC 3258	QC 3210	QC 3233	QC 3236
Total Organic Carbon	TM132	98.66 93.61 : 106.00	97.19 93.61 : 106.00	97.49 93.61 : 106.00	98.62 93.61 : 106.00	97.17 93.61 : 106.00	99.34 93.61 : 106.00

Component	Method Code	QC 3243
Total Organic Carbon	TM132	102.12 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	06 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251028-34
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	782337
Order Number:	UK-70100310

We received 52 samples on Saturday October 25, 2025 and 51 of these samples were scheduled for analysis which was completed on Thursday November 06, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32358400	GR03-SP321-A	ES	0.00 - 0.10	23/10/2025
32358422	GR03-SP321-A	ESALS	0.20 - 0.30	23/10/2025
32358448	GR03-SP321-A	ES	0.40 - 0.50	23/10/2025
32358439	GR03-SP333-A	ES	0.00 - 0.10	23/10/2025
32358441	GR03-SP333-A	ES	0.20 - 0.30	23/10/2025
32358443	GR03-SP333-A	ESALS	0.40 - 0.50	23/10/2025
32358472	GR03-SP321-B	ES	0.10 - 0.20	23/10/2025
32358498	GR03-SP321-B	ES	0.30 - 0.40	23/10/2025
32358508	GR03-SP321-B	ES	0.50 - 0.60	23/10/2025
32358445	GR03-SP333-B-S1	ESGeotextile	0.10 - 0.20	23/10/2025
32358450	GR03-SP333-B-S1	ES	0.30 - 0.40	23/10/2025
32358452	GR03-SP333-B-S1	ESA1	0.50 - 0.60	23/10/2025
32358454	GR03-SP333-B-S1	ESA2	0.50 - 0.60	23/10/2025
32358456	GR03-SP333-B-S2	ESA1	0.50 - 0.60	23/10/2025
32358458	GR03-SP333-B-S2	ESA2	0.50 - 0.60	23/10/2025
32358510	GR03-SP321-C	ES	0.00 - 0.10	23/10/2025
32358512	GR03-SP321-C	ES	0.30 - 0.40	23/10/2025
32358514	GR03-SP321-C	ES	0.40 - 0.50	23/10/2025
32358460	GR03-SP333-C	ES	0.00 - 0.10	23/10/2025
32358462	GR03-SP333-C	WS	0.00 - 0.50	23/10/2025
32358466	GR03-SP333-C	ES	0.30 - 0.40	23/10/2025
32358468	GR03-SP333-C	ES	0.40 - 0.50	23/10/2025
32358402	GR03-SP321-D	ES	0.10 - 0.20	23/10/2025
32358404	GR03-SP321-D	ES	0.20 - 0.30	23/10/2025
32358406	GR03-SP321-D	ESALS	0.50 - 0.60	23/10/2025
32358470	GR03-SP333-D	ES	0.10 - 0.20	23/10/2025
32358474	GR03-SP333-D	ES	0.20 - 0.30	23/10/2025
32358478	GR03-SP333-D	ES	0.50 - 0.60	23/10/2025
32358480	GR03-SP333-E	ES	0.00 - 0.10	23/10/2025
32358483	GR03-SP333-E	WT	0.00 - 0.10	23/10/2025
32358486	GR03-SP333-E	ES	0.20 - 0.30	23/10/2025
32358488	GR03-SP333-E	ES	0.40 - 0.50	23/10/2025
32358408	GR03-SP321-E-S1	ESA1	0.00 - 0.10	23/10/2025
32358410	GR03-SP321-E-S1	ESA2	0.00 - 0.10	23/10/2025
32358412	GR03-SP321-E-S1	ES	0.20 - 0.30	23/10/2025
32358414	GR03-SP321-E-S1	ES	0.40 - 0.50	23/10/2025
32358416	GR03-SP321-E-S2	ESA1	0.00 - 0.10	23/10/2025
32358418	GR03-SP321-E-S2	ESA2	0.00 - 0.10	23/10/2025
32358420	GR03-SP321-F	ES	0.10 - 0.20	23/10/2025
32358424	GR03-SP321-F	ES	0.30 - 0.40	23/10/2025
32358426	GR03-SP321-F	ES	0.50 - 0.60	23/10/2025
32358490	GR03-SP333-F	ESALS	0.10 - 0.20	23/10/2025
32358492	GR03-SP333-F	ES	0.30 - 0.40	23/10/2025
32358494	GR03-SP333-F	ES	0.50 - 0.60	23/10/2025
32358428	GR03-SP321-G	ES	0.00 - 0.10	23/10/2025
32358430	GR03-SP321-G	WT	0.00 - 0.10	23/10/2025
32358434	GR03-SP321-G	ES	0.30 - 0.40	23/10/2025
32358436	GR03-SP321-G	ES	0.40 - 0.50	23/10/2025
32358496	GR03-SP333-G	ES	0.00 - 0.10	23/10/2025
32358501	GR03-SP333-G	WS	0.00 - 0.50	23/10/2025
32358504	GR03-SP333-G	ES	0.30 - 0.40	23/10/2025
32358506	GR03-SP333-G	ES	0.40 - 0.50	23/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32358462	GR03-SP333-C	WS	0.00 - 0.50	50ml driptube (ALE001)	PW						
	32358460	GR03-SP333-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32358514	GR03-SP321-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32358512	GR03-SP321-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32358510	GR03-SP321-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32358458	GR03-SP333-B-S2	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32358456	GR03-SP333-B-S2	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32358454	GR03-SP333-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32358452	GR03-SP333-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32358450	GR03-SP333-B-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32358508	GR03-SP321-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32358498	GR03-SP321-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32358472	GR03-SP321-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32358443	GR03-SP333-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32358441	GR03-SP333-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32358439	GR03-SP333-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32358448	GR03-SP321-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
pH	32358422	GR03-SP321-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32358400	GR03-SP321-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
Sample description												
Total Organic Carbon												

32358426	GR03-SP321-F	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358424	GR03-SP321-F	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358420	GR03-SP321-F	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358418	GR03-SP321-E-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358416	GR03-SP321-E-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358414	GR03-SP321-E-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358412	GR03-SP321-E-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X			X
32358410	GR03-SP321-E-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358408	GR03-SP321-E-S1	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358488	GR03-SP333-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358486	GR03-SP333-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X			X
32358483	GR03-SP333-E	WT	0.00 - 0.10	50ml digitube (ALE001)	PW		X					
32358480	GR03-SP333-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358478	GR03-SP333-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358474	GR03-SP333-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358470	GR03-SP333-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358406	GR03-SP321-D	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358404	GR03-SP321-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358402	GR03-SP321-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358468	GR03-SP333-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32358466	GR03-SP333-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend

- X** Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend X Test N No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32358506		GR03-SP333-G		ES		0.40 - 0.50		1kg TUB with Handle (ALE260)		S	
	32358504		GR03-SP333-G		ES		0.30 - 0.40		1kg TUB with Handle (ALE260)		S	
	32358501		GR03-SP333-G		WS		0.00 - 0.50		50ml digitube (ALE001)		PW	
	32358496		GR03-SP333-G		ES		0.00 - 0.10		1kg TUB with Handle (ALE260)		S	
	32358436		GR03-SP321-G		ES		0.40 - 0.50		1kg TUB with Handle (ALE260)		S	
	32358434		GR03-SP321-G		ES		0.30 - 0.40		1kg TUB with Handle (ALE260)		S	
32358430		GR03-SP321-G		WT		0.00 - 0.10		50ml digitube (ALE001)		PW		
32358428		GR03-SP321-G		ES		0.00 - 0.10		1kg TUB with Handle (ALE260)		S		
32358494		GR03-SP333-F		ES		0.50 - 0.60		1kg TUB with Handle (ALE260)		S		
32358492		GR03-SP333-F		ES		0.30 - 0.40		1kg TUB with Handle (ALE260)		S		
32358490		GR03-SP333-F		ESALS		0.10 - 0.20		1kg TUB with Handle (ALE260)		S		
PFAS in soils			All	NDPs: 0 Tests: 47	X	X	X	X		X	X	X
PFAS Liquids (Full Suite)			All	NDPs: 0 Tests: 4				X		X		
pH			All	NDPs: 0 Tests: 47	X	X	X	X		X	X	X
Sample description			All	NDPs: 0 Tests: 45	X	X	X	X		X	X	X
Total Organic Carbon			All	NDPs: 0 Tests: 47	X	X	X	X		X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32358400	GR03-SP321-A	0.00 - 0.10	Dark Brown	Silt Loam	Vegetation	None
32358422	GR03-SP321-A	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Crushed Brick	Stones
32358448	GR03-SP321-A	0.40 - 0.50	Light Brown	Clay	Crushed Brick	Vegetation
32358439	GR03-SP333-A	0.00 - 0.10	Light Brown	Silt Loam	Stones	Vegetation
32358441	GR03-SP333-A	0.20 - 0.30	Dark Brown	Silty Clay	Stones	None
32358443	GR03-SP333-A	0.40 - 0.50	Light Brown	Silt Loam	Stones	Vegetation
32358472	GR03-SP321-B	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32358498	GR03-SP321-B	0.30 - 0.40	Light Brown	Sandy Clay	Stones	Vegetation
32358508	GR03-SP321-B	0.50 - 0.60	Light Brown	Clay	Stones	Vegetation
32358450	GR03-SP333-B-S1	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	None
32358452	GR03-SP333-B-S1	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	None
32358454	GR03-SP333-B-S1	0.50 - 0.60	Light Brown	Silty Clay	Stones	Vegetation
32358456	GR03-SP333-B-S2	0.50 - 0.60	Dark Brown	Sandy Clay	Stones	Vegetation
32358458	GR03-SP333-B-S2	0.50 - 0.60	Dark Brown	Sandy Clay	Stones	Vegetation
32358510	GR03-SP321-C	0.00 - 0.10	Light Brown	Sandy Silt Loam	Vegetation	Stones
32358512	GR03-SP321-C	0.30 - 0.40	Light Brown	Sandy Silt Loam	Vegetation	Stones
32358514	GR03-SP321-C	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32358460	GR03-SP333-C	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32358466	GR03-SP333-C	0.30 - 0.40	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32358468	GR03-SP333-C	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32358402	GR03-SP321-D	0.10 - 0.20	Light Brown	Silty Clay	Stones	Vegetation
32358404	GR03-SP321-D	0.20 - 0.30	Light Brown	Silty Clay	Stones	Vegetation
32358406	GR03-SP321-D	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32358470	GR03-SP333-D	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Brick	Vegetation
32358474	GR03-SP333-D	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Stones	Plastic
32358478	GR03-SP333-D	0.50 - 0.60	Dark Brown	Silty Clay	Stones	None
32358480	GR03-SP333-E	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32358486	GR03-SP333-E	0.20 - 0.30	Dark Brown	Silty Clay Loam	Brick	Stones
32358488	GR03-SP333-E	0.40 - 0.50	Light Brown	Silty Clay	Stones	None
32358408	GR03-SP321-E-S1	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32358410	GR03-SP321-E-S1	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32358412	GR03-SP321-E-S1	0.20 - 0.30	Light Brown	Sandy Clay Loam	Concrete/Aggregate	Stones
32358414	GR03-SP321-E-S1	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation
32358416	GR03-SP321-E-S2	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32358418	GR03-SP321-E-S2	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Vegetation	None
32358420	GR03-SP321-F	0.10 - 0.20	Light Brown	Silty Clay	Stones	Vegetation
32358424	GR03-SP321-F	0.30 - 0.40	Light Brown	Sandy Clay	Vegetation	Stones
32358426	GR03-SP321-F	0.50 - 0.60	Light Brown	Silt Loam	None	None
32358490	GR03-SP333-F	0.10 - 0.20	Dark Brown	Silty Clay Loam	Brick	Vegetation



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32358492	GR03-SP333-F	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32358494	GR03-SP333-F	0.50 - 0.60	Light Brown	Silty Clay	Stones	None
32358428	GR03-SP321-G	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Vegetation	Stones
32358434	GR03-SP321-G	0.30 - 0.40	Light Brown	Silty Clay	Stones	Vegetation
32358436	GR03-SP321-G	0.40 - 0.50	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32358496	GR03-SP333-G	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Brick	Fibres
32358504	GR03-SP333-G	0.30 - 0.40	Light Brown	Sandy Clay	Crushed Brick	Vegetation
32358506	GR03-SP333-G	0.40 - 0.50	Dark Brown	Sandy Silt Loam	Stones	Plastic

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP321-A	GR03-SP321-A	GR03-SP321-A	GR03-SP333-A	GR03-SP333-A	GR03-SP333-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
diss.filt	Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
tot.unfilt	Total / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
Subcontracted - refer to subcontractor report for accreditation status.					32358400	32358422	32358448	32358439	32358441	32358443
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	ES	ESALS
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			30	19	17	24	21	24
Soil Organic Matter (SOM)	<0.35 %	TM132			4.91	10.3	2.05	6.14	2.33	2.98
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.24	8.25	8.2	7.53	7.36	6.86
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			0.98	0.698	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.81	3.58	1.53	1.27	2.36	4.43
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			0.93	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP321-B	GR03-SP321-B	GR03-SP321-B	GR03-SP333-B-S1	GR03-SP333-B-S1	GR03-SP333-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
diss.filt	Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
tot.unfilt	Total / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
* Subcontracted - refer to subcontractor report for accreditation status.					32358472	32358498	32358508	32358450	32358452	32358454
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			26	17	14	19	22	22
Soil Organic Matter (SOM)	<0.35 %	TM132			3.84	1.46	0.559	1.55	2.02	1.83
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.09	7.05	7.6	6.88	6.42	6.57
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			7.45	3.03	2.12	4.6	3.92	4.33
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-B-S2	GR03-SP333-B-S2	GR03-SP321-C	GR03-SP321-C	GR03-SP321-C	GR03-SP333-C
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358456 ESA1		0.50 - 0.60 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358458 ESA2	0.00 - 0.10 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358510 ES	0.30 - 0.40 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358512 ES	0.40 - 0.50 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358514 ES	0.00 - 0.10 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358460 ES	
Component	LOD/Units	Method		22	23	30	19	15	18
Moisture Content Ratio (% of as received sample)	%	PM024		22	23	30	19	15	18
Soil Organic Matter (SOM)	<0.35 %	TM132		2.6 #	3.53 #	4.43 #	3.31 #	0.69 #	3.55 #
pH	1 pH Units	TM133		6.79 M	6.73 M	5.98 M	6.89 M	7.44 M	7.18 M
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	8.58	6.11	2.02	1.69	1.37	2.1	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	0.981	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-C	GR03-SP333-C	GR03-SP333-C	GR03-SP321-D	GR03-SP321-D	GR03-SP321-D
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.02						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.01						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.05						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.01						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.01						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.01						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.03						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.01						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.01						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.02						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.01						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.01						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.01						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.05						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.01						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.01						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.01						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.0065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.01						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.01						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.01						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.02						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.05						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.02						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.02	@					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.05						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.0065						
Branched PFOS	<0.00065 µg/l	TM434	<0.0065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.02	@					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.02						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.01						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.01						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.01						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-C	GR03-SP333-C	GR03-SP333-C	GR03-SP321-D	GR03-SP321-D	GR03-SP321-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50 Process Water (PR) 23/10/2025	0.30 - 0.40 Soil/Solid (S) 23/10/2025	0.40 - 0.50 Soil/Solid (S) 23/10/2025	0.10 - 0.20 Soil/Solid (S) 23/10/2025	0.20 - 0.30 Soil/Solid (S) 23/10/2025	0.50 - 0.60 Soil/Solid (S) 23/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
***	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			25/10/2025 251028-34 32358462 WS	25/10/2025 251028-34 32358466 ES	25/10/2025 251028-34 32358468 ES	25/10/2025 251028-34 32358402 ES	25/10/2025 251028-34 32358404 ES	25/10/2025 251028-34 32358406 ESALS
***	6:2 FTAB (see appendix)								
1-4**	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434		<0.02					
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.02					
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434		<0.03					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.02					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.02					
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.01					
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.02					
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.02					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.01					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.1					
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434		<0.01					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.1					
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.01					
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434		<0.01					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.1					
Total PFOS	<0.00065 µg/l	TM434		<0.0065					
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.9					
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.01					
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.01					
Moisture Content Ratio (% of as received sample)	%	PM024			23	22	27	20	22
Soil Organic Matter (SOM)	<0.35 %	TM132			3	2.53	4.64	3.83	17.4
pH	1 pH Units	TM133			6.44	6.46	6.46	7.45	8.01
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-C	GR03-SP333-C	GR03-SP333-C	GR03-SP321-D	GR03-SP321-D	GR03-SP321-D
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
m mCERTS accredited.				Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
diss.filt Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
tot.unfiltTotal / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
* Subcontracted - refer to subcontractor report for accreditation status.				32358462	32358466	32358468	32358402	32358404	32358406
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				WS	ES	ES	ES	ES	ESALS
*** 6:2 FTAB (see appendix)									
1-4*9@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			6.65	7.38	3.57	2.71	5.23
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	0.897	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-D	GR03-SP333-D	GR03-SP333-D	GR03-SP333-E	GR03-SP333-E	GR03-SP333-E							
#	ISO17025 accredited.															
M	mCERTS accredited.															
aq	Aqueous / settled sample.															
diss.filt	Dissolved / filtered sample.															
tot.unfilt	Total / unfiltered sample.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20 Soil/Solid (S) 23/10/2025	0.20 - 0.30 Soil/Solid (S) 23/10/2025	0.50 - 0.60 Soil/Solid (S) 23/10/2025	0.00 - 0.10 Soil/Solid (S) 23/10/2025	0.00 - 0.10 Process Water (PR) 23/10/2025	0.20 - 0.30 Soil/Solid (S) 23/10/2025							
* Subcontracted - refer to subcontractor report for accreditation status.																
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery																
*** 6:2 FTAB (see appendix)																
1-4**@Sample deviation (see appendix)																
Component	LOD/Units	Method														
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.01								
PFMOPrA (377-73-1)	<0.001 µg/l	TM434						<0.005								
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.025								
PFPa (2706-90-3)	<0.001 µg/l	TM434						<0.005								
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.005								
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.005								
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.015								
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.005								
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.005								
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.01								
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.005								
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.005								
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.005								
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.025								
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.005								
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.005								
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.005								
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00325								
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.005								
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.005								
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.005								
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.01								
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.025								
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.01								
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.01	@							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.025								
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00325								
Branched PFOS	<0.00065 µg/l	TM434						<0.00325								
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.01	@							
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.01								
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.005								
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.005								
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.005								



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP333-D	GR03-SP333-D	GR03-SP333-D	GR03-SP333-E	GR03-SP333-E	GR03-SP333-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
diss.filt	Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
tot.unfilt	Total / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
* Subcontracted - refer to subcontractor report for accreditation status.					32358470	32358474	32358478	32358480	32358483	32358486
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.01	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.01	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.015	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.01	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.01	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.005	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.01	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.01	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.005	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.05	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.005	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.05	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.005	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.005	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.05	
Total PFOS	<0.00065 µg/l	TM434							<0.00325	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.45	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.005	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.005	
Moisture Content Ratio (% of as received sample)	%	PM024			16	21	21	22		21
Soil Organic Matter (SOM)	<0.35 %	TM132			2.57	2.78	2.62	3.19		2.31
pH	1 pH Units	TM133			7.28	7.15	6.77	7.23		7.54
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP333-D	GR03-SP333-D	GR03-SP333-D	GR03-SP333-E	GR03-SP333-E	GR03-SP333-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
diss.filt	Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
tot.unfilt	Total / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
Subcontracted - refer to subcontractor report for accreditation status.					32358470	32358474	32358478	32358480	32358483	32358486
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.46	2.75	4.25	6.62		6.16
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP333-E	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
diss.filt	Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
tot.unfilt	Total / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
* Subcontracted - refer to subcontractor report for accreditation status.					32358488	32358408	32358410	32358412	32358414	32358416
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESA1	ESA2	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			23	29	23	21	18	29
Soil Organic Matter (SOM)	<0.35 %	TM132			1.98	9.91	8.93	4.83	1.28	6.03
pH	1 pH Units	TM133			6.73	6.98	6.71	8.46	7.8	6.67
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	0.967	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			18.7	3.69	2.08	4.64	3.42	2.44
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	1.05	0.94	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP321-E-S2	GR03-SP321-F	GR03-SP321-F	GR03-SP321-F	GR03-SP333-F	GR03-SP333-F
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	30		23		17		25
Soil Organic Matter (SOM)	<0.35 %	TM132	5.9	#	4.5	#	1.17	#	3.38
pH	1 pH Units	TM133	6.95	M	7.74	M	7.82	M	7.04
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8		<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	0.984		<0.5		<0.5		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8		<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1		<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5		<2.5		<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.12		6.39		1.76		17
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10		<10		<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6		<0.6		<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9		<0.9		<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4		<4.4		<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440	<0.6		<0.6		<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.29		0.815		<0.6		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5		<2.5		<2.5		<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-F	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP333-G
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.			Depth (m)	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
*** 6.2 FTAB (see appendix)			Date Sampled	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
1-4*§@ Sample deviation (see appendix)			Date Received	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025
			SDG Ref	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
			Lab Sample No.(s)	32358494	32358428	32358430	32358434	32358436	32358496
			AGS Reference	ES	ES	WT	ES	ES	ES
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9Cl-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP333-F	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP333-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.				23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	
diss.filt	Dissolved / filtered sample.				25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	25/10/2025	
tot.unfilt	Total / unfiltered sample.				251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	
* Subcontracted - refer to subcontractor report for accreditation status.					32358494	32358428	32358430	32358434	32358436	32358496	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ES	
*** 6:2 FTAB (see appendix)											
1-4*§@ Sample deviation (see appendix)											
Component	LOD/Units	Method									
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01				
Total PFOS	<0.00065 µg/l	TM434					<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			24	26		18	19	20	
Soil Organic Matter (SOM)	<0.35 %	TM132			2.48	4.29		2.5	4.52	2.22	
pH	1 pH Units	TM133			7.23	6.19		8.35	7.86	7.83	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP333-F	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP333-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 23/10/2025	0.00 - 0.10 Soil/Solid (S) 23/10/2025	0.00 - 0.10 Process Water (PR) 23/10/2025	0.30 - 0.40 Soil/Solid (S) 23/10/2025	0.40 - 0.50 Soil/Solid (S) 23/10/2025	0.00 - 0.10 Soil/Solid (S) 23/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					25/10/2025 251028-34 32358494 ES	25/10/2025 251028-34 32358428 ES	25/10/2025 251028-34 32358430 WT	25/10/2025 251028-34 32358434 ES	25/10/2025 251028-34 32358436 ES	25/10/2025 251028-34 32358496 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			14.7	2.12		2.54	2.02	4.66
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	1.24		1.14	<0.6	1.23
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP333-G	GR03-SP333-G	GR03-SP333-G			
# ISO17025 accredited.			0.00 - 0.50	0.30 - 0.40	0.40 - 0.50			
M mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)			
aq Aqueous / settled sample.			23/10/2025	23/10/2025	23/10/2025			
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4**\$@ Sample deviation (see appendix)			WS	ES	ES			
Component	LOD/Units	Method						
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.01					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.005					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.025					
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.005					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.005					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.005					
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.015					
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.005					
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.005					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.01					
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.005					
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.005					
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.005					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.025					
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.005					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.005					
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.005					
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00325					
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.005					
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.005					
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.005					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.01					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.025					
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.01					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.01	@				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.025					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00325					
Branched PFOS	<0.00065 µg/l	TM434	<0.00325					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.01	@				
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.01					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.005					
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.005					
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.005					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-G	GR03-SP333-G	GR03-SP333-G		
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50 Process Water (PR) 23/10/2025 25/10/2025 251028-34 32358501 WS	0.30 - 0.40 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358504 ES	0.40 - 0.50 Soil/Solid (S) 23/10/2025 25/10/2025 251028-34 32358506 ES		
Component	LOD/Units	Method						
PFDaA (307-55-1)	<0.002 µg/l	TM434		<0.01				
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.01				
PFTraDA (72629-94-8)	<0.003 µg/l	TM434		<0.015				
11Cl-PF3OUds (763051-92-9)	<0.002 µg/l	TM434		<0.01				
PFUnDs (749786-16-1)	<0.002 µg/l	TM434		<0.01				
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.005				
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.01				
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.01				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.005				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.05				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434		<0.005				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.05				
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.005				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434		<0.005				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.05				
Total PFOS	<0.00065 µg/l	TM434		<0.00325				
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.45				
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.005				
PFTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.005				
Moisture Content Ratio (% of as received sample)	%	PM024			22	25		
Soil Organic Matter (SOM)	<0.35 %	TM132			1.98	7.17		
pH	1 pH Units	TM133			7.42	6.95		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP333-G	GR03-SP333-G	GR03-SP333-G			
#	ISO17025 accredited.	mCERTS accredited.							
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
			Depth (m)	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50			
			Sample Type	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	23/10/2025	23/10/2025	23/10/2025			
			Sample Time						
			Date Received	25/10/2025	25/10/2025	25/10/2025			
			SDG Ref	251028-34	251028-34	251028-34			
			Lab Sample No.(s)	32358501	32358504	32358506			
			AGS Reference	WS	ES	ES			
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.89	3.27			
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5			
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4			
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5			
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5			
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8			
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6			
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6			
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6			
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7			
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5			
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34 Report Number: 782337 Superseded Report:
Client Ref.: UK-70100310 Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32358400	32358422	32358448	32358439	32358441	32358443	32358472	32358498	32358508	32358450
	GR03-SP321-A	GR03-SP321-A	GR03-SP321-A	GR03-SP333-A	GR03-SP333-A	GR03-SP333-A	GR03-SP321-B	GR03-SP321-B	GR03-SP321-B	GR03-SP333-B-S1
	ES	ESALS	ES	ES	ES	ESALS	ES	ES	ES	ES
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025	05-Nov-2025	05-Nov-2025	03-Nov-2025	05-Nov-2025	03-Nov-2025	03-Nov-2025	05-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	28-Oct-2025	28-Oct-2025	28-Oct-2025	29-Oct-2025	28-Oct-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025
Total Organic Carbon	04-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	04-Nov-2025	05-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32358452	32358454	32358456	32358458	32358510	32358512	32358514	32358460	32358462	32358466
	GR03-SP333-B-S1	GR03-SP333-B-S1	GR03-SP333-B-S2	GR03-SP333-B-S2	GR03-SP321-C	GR03-SP321-C	GR03-SP321-C	GR03-SP333-C	GR03-SP333-C	GR03-SP333-C
	ESA1	ESA2	ESA1	ESA2	ES	ES	ES	ES	WS	ES
	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	31-Oct-2025	31-Oct-2025	03-Nov-2025		03-Nov-2025
PFAS Liquids (Full Suite)									03-Nov-2025	
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	30-Oct-2025	30-Oct-2025	31-Oct-2025		31-Oct-2025
Sample description	28-Oct-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	29-Oct-2025		28-Oct-2025
Total Organic Carbon	04-Nov-2025	04-Nov-2025	05-Nov-2025	04-Nov-2025	04-Nov-2025	05-Nov-2025	04-Nov-2025	05-Nov-2025		05-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32358468	32358402	32358404	32358406	32358470	32358474	32358478	32358480	32358483	32358486
	GR03-SP333-C	GR03-SP321-D	GR03-SP321-D	GR03-SP321-D	GR03-SP333-D	GR03-SP333-D	GR03-SP333-D	GR03-SP333-E	GR03-SP333-E	GR03-SP333-E
	ES	ES	ES	ESALS	ES	ES	ES	ES	WT	ES
	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025		05-Nov-2025
PFAS Liquids (Full Suite)									03-Nov-2025	
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025
Sample description	28-Oct-2025	29-Oct-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	30-Oct-2025		30-Oct-2025
Total Organic Carbon	05-Nov-2025	04-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025		06-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32358488	32358408	32358410	32358412	32358414	32358416	32358418	32358420	32358424	32358426
	GR03-SP333-E	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S2	GR03-SP321-E-S2	GR03-SP321-F	GR03-SP321-F	GR03-SP321-F
	ES	ESA1	ESA2	ES	ES	ESA1	ESA2	ES	ES	ES
	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	05-Nov-2025	03-Nov-2025	05-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	30-Oct-2025	28-Oct-2025	29-Oct-2025	29-Oct-2025	28-Oct-2025	28-Oct-2025	28-Oct-2025	29-Oct-2025	28-Oct-2025	29-Oct-2025
Total Organic Carbon	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	04-Nov-2025	05-Nov-2025	04-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32358490	32358492	32358494	32358428	32358430	32358434	32358436	32358496	32358501	32358504
	GR03-SP333-F	GR03-SP333-F	GR03-SP333-F	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP321-G	GR03-SP333-G	GR03-SP333-G	GR03-SP333-G
	ESALS	ES	ES	ES	WT	ES	ES	ES	WS	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025		03-Nov-2025	03-Nov-2025	03-Nov-2025		03-Nov-2025
PFAS Liquids (Full Suite)					03-Nov-2025				03-Nov-2025	
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025
Sample description	28-Oct-2025	28-Oct-2025	29-Oct-2025	28-Oct-2025		29-Oct-2025	28-Oct-2025	28-Oct-2025		28-Oct-2025
Total Organic Carbon	05-Nov-2025	05-Nov-2025	05-Nov-2025	04-Nov-2025		05-Nov-2025	05-Nov-2025	06-Nov-2025		05-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32358506
	GR03-SP333-G
	ES
	0.40 - 0.50
Depth Type	Soil/Solid (S)
PFAS in soils	03-Nov-2025
pH	31-Oct-2025
Sample description	28-Oct-2025
Total Organic Carbon	05-Nov-2025



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Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3289	QC 3282	QC 3233	QC 3257	QC 3223	QC 3289
10:2 FTS (Raw)	TM440	131.47 53.10 : 140.00	119.75 53.10 : 140.00	118.32 53.10 : 140.00	117.69 53.10 : 140.00	103.19 53.10 : 140.00	83.81 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	103.4 53.56 : 141.19	102.41 53.56 : 141.19	101.82 53.56 : 141.19	111.04 53.56 : 141.19	95.07 53.56 : 141.19	90.7 53.56 : 141.19
3:3 FTCA (Raw)	TM440	83.15 50.54 : 133.25	89.66 50.54 : 133.25	101.07 50.54 : 133.25	101.75 50.54 : 133.25	81.0 50.54 : 133.25	90.11 50.54 : 133.25
4:2 FTS (Raw)	TM440	115.58 56.34 : 145.91	124.46 56.34 : 145.91	126.78 56.34 : 145.91	127.28 56.34 : 145.91	103.71 56.34 : 145.91	96.26 56.34 : 145.91
5:3 FTCA (Raw)	TM440	104.72 52.66 : 130.08	107.56 52.66 : 130.08	99.95 52.66 : 130.08	104.33 52.66 : 130.08	94.22 52.66 : 130.08	82.63 52.66 : 130.08
6:2 FTAB (Raw)	TM440	39.44 38.50 : 101.50	49.76 38.50 : 101.50	59.63 38.50 : 101.50	42.92 38.50 : 101.50	38.91 38.50 : 101.50	35.26 38.50 : 101.50
6:2 FTS (Raw)	TM440	105.68 54.79 : 144.46	121.54 54.79 : 144.46	125.53 54.79 : 144.46	112.77 54.79 : 144.46	103.22 54.79 : 144.46	93.35 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.13 48.60 : 128.14	112.04 48.60 : 128.14	109.9 48.60 : 128.14	102.71 48.60 : 128.14	91.97 48.60 : 128.14	89.18 48.60 : 128.14
8:2 diPAP (Raw)	TM440	94.46 56.03 : 147.72	100.83 56.03 : 147.72	116.76 56.03 : 147.72	124.4 56.03 : 147.72	91.15 56.03 : 147.72	89.62 56.03 : 147.72
8:2 FTS (Raw)	TM440	113.09 55.74 : 146.96	112.74 55.74 : 146.96	121.61 55.74 : 146.96	111.28 55.74 : 146.96	122.62 55.74 : 146.96	92.46 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	96.86 54.59 : 143.91	94.76 54.59 : 143.91	101.34 54.59 : 143.91	107.91 54.59 : 143.91	84.96 54.59 : 143.91	89.09 54.59 : 143.91
ADONA (Raw)	TM440	99.33 54.01 : 132.33	106.16 54.01 : 132.33	118.07 54.01 : 132.33	111.68 54.01 : 132.33	92.88 54.01 : 132.33	83.25 54.01 : 132.33
Branched PFOS (Raw)	TM440	102.16 54.09 : 142.61	103.64 54.09 : 142.61	98.79 54.09 : 142.61	104.98 54.09 : 142.61	87.14 54.09 : 142.61	94.42 54.09 : 142.61
EtFOSAA (Raw)	TM440	103.76 52.48 : 138.36	103.59 52.48 : 138.36	109.78 52.48 : 138.36	117.67 52.48 : 138.36	93.74 52.48 : 138.36	95.27 52.48 : 138.36
EtFOSE (Raw)	TM440	107.04 57.05 : 145.29	107.67 57.05 : 145.29	117.92 57.05 : 145.29	118.64 57.05 : 145.29	106.87 57.05 : 145.29	88.96 57.05 : 145.29
FBSA (Raw)	TM440	87.82 49.51 : 125.13	95.35 49.51 : 125.13	108.62 49.51 : 125.13	112.0 49.51 : 125.13	91.4 49.51 : 125.13	82.92 49.51 : 125.13
FHxSA (Raw)	TM440	97.33 50.38 : 132.82	106.09 50.38 : 132.82	113.44 50.38 : 132.82	118.85 50.38 : 132.82	96.81 50.38 : 132.82	85.97 50.38 : 132.82
HFPO-DA (Raw)	TM440	109.57 53.47 : 140.98	118.53 53.47 : 140.98	125.11 53.47 : 140.98	124.89 53.47 : 140.98	105.68 53.47 : 140.98	92.01 53.47 : 140.98
HFPO-TA (Raw)	TM440	117.02 54.77 : 144.39	119.71 54.77 : 144.39	118.23 54.77 : 144.39	126.51 54.77 : 144.39	192.98 54.77 : 144.39	92.24 54.77 : 144.39
L-PFOS (Raw)	TM440	102.16 54.09 : 142.61	103.64 54.09 : 142.61	98.79 54.09 : 142.61	104.98 54.09 : 142.61	87.14 54.09 : 142.61	94.42 54.09 : 142.61
MeFOSAA (Raw)	TM440	89.07 53.02 : 139.78	92.38 53.02 : 139.78	109.17 53.02 : 139.78	113.3 53.02 : 139.78	90.06 53.02 : 139.78	88.66 53.02 : 139.78
MeFOSE (Raw)	TM440	112.41 54.99 : 144.97	119.62 54.99 : 144.97	125.63 54.99 : 144.97	116.36 54.99 : 144.97	110.85 54.99 : 144.97	82.91 54.99 : 144.97
N-EtFOSA (Raw)	TM440	105.99 59.56 : 132.93	110.11 59.56 : 132.93	116.11 59.56 : 132.93	120.73 59.56 : 132.93	108.53 59.56 : 132.93	100.83 59.56 : 132.93
NFDHA (Raw)	TM440	92.45 57.35 : 151.20	107.05 57.35 : 151.20	107.5 57.35 : 151.20	111.06 57.35 : 151.20	88.41 57.35 : 151.20	81.15 57.35 : 151.20
N-MeFOSA (Raw)	TM440	100.93 59.19 : 133.01	102.99 59.19 : 133.01	117.45 59.19 : 133.01	116.68 59.19 : 133.01	99.43 59.19 : 133.01	96.24 59.19 : 133.01
PFBA (Raw)	TM440	100.87 52.69 : 138.91	106.69 52.69 : 138.91	117.76 52.69 : 138.91	115.64 52.69 : 138.91	99.79 52.69 : 138.91	82.31 52.69 : 138.91



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Superseded Report:

PFAS in soils

		QC 3289	QC 3282	QC 3233	QC 3257	QC 3223	QC 3289
PFBS (Raw)	TM440	101.85 53.31 : 140.54	101.4 53.31 : 140.54	109.31 53.31 : 140.54	110.09 53.31 : 140.54	90.3 53.31 : 140.54	83.63 53.31 : 140.54
PFDA (Raw)	TM440	106.27 53.39 : 140.76	117.33 53.39 : 140.76	125.52 53.39 : 140.76	125.9 53.39 : 140.76	102.25 53.39 : 140.76	88.43 53.39 : 140.76
PFDoA (Raw)	TM440	102.66 52.85 : 139.34	110.31 52.85 : 139.34	120.03 52.85 : 139.34	114.94 52.85 : 139.34	100.51 52.85 : 139.34	92.14 52.85 : 139.34
PFDoS (Raw)	TM440	107.61 55.29 : 145.76	110.68 55.29 : 145.76	100.04 55.29 : 145.76	114.56 55.29 : 145.76	167.95 55.29 : 145.76	92.15 55.29 : 145.76
PFDS (Raw)	TM440	101.64 52.94 : 139.56	100.58 52.94 : 139.56	104.12 52.94 : 139.56	108.05 52.94 : 139.56	89.69 52.94 : 139.56	87.5 52.94 : 139.56
PFecHS (Raw)	TM440	103.28 50.75 : 133.80	97.68 50.75 : 133.80	113.8 50.75 : 133.80	108.06 50.75 : 133.80	94.64 50.75 : 133.80	88.67 50.75 : 133.80
PFEESA (Raw)	TM440	98.37 50.87 : 134.12	99.53 50.87 : 134.12	101.42 50.87 : 134.12	99.11 50.87 : 134.12	82.23 50.87 : 134.12	80.38 50.87 : 134.12
PFHpA (Raw)	TM440	104.49 52.61 : 138.69	109.76 52.61 : 138.69	119.39 52.61 : 138.69	113.09 52.61 : 138.69	101.51 52.61 : 138.69	83.25 52.61 : 138.69
PFHpS (Raw)	TM440	96.77 55.29 : 145.76	102.56 55.29 : 145.76	102.71 55.29 : 145.76	106.71 55.29 : 145.76	83.4 55.29 : 145.76	91.61 55.29 : 145.76
PFHxA (Raw)	TM440	98.71 54.05 : 142.50	111.68 54.05 : 142.50	115.92 54.05 : 142.50	116.41 54.05 : 142.50	98.21 54.05 : 142.50	82.99 54.05 : 142.50
PFHxDA (Raw)	TM440	96.86 52.03 : 137.17	104.62 52.03 : 137.17	109.8 52.03 : 137.17	108.71 52.03 : 137.17	159.07 52.03 : 137.17	82.19 52.03 : 137.17
PFHxS (Raw)	TM440	106.41 53.56 : 141.19	106.85 53.56 : 141.19	111.52 53.56 : 141.19	112.84 53.56 : 141.19	100.32 53.56 : 141.19	88.56 53.56 : 141.19
PFMOBA (Raw)	TM440	87.2 52.73 : 139.02	94.61 52.73 : 139.02	105.2 52.73 : 139.02	113.56 52.73 : 139.02	89.56 52.73 : 139.02	87.23 52.73 : 139.02
PFMOPra (Raw)	TM440	106.99 52.57 : 138.58	89.76 52.57 : 138.58	90.95 52.57 : 138.58	91.14 52.57 : 138.58	82.34 52.57 : 138.58	82.69 52.57 : 138.58
PFNA (Raw)	TM440	106.15 52.94 : 139.56	106.9 52.94 : 139.56	121.45 52.94 : 139.56	114.5 52.94 : 139.56	96.44 52.94 : 139.56	87.75 52.94 : 139.56
PFNS (Raw)	TM440	102.92 54.38 : 143.37	100.33 54.38 : 143.37	103.36 54.38 : 143.37	107.73 54.38 : 143.37	85.62 54.38 : 143.37	87.14 54.38 : 143.37
PFOA (Raw)	TM440	98.31 53.80 : 141.85	106.65 53.80 : 141.85	121.32 53.80 : 141.85	121.7 53.80 : 141.85	98.39 53.80 : 141.85	87.56 53.80 : 141.85
PFODA (Raw)	TM440	87.63 56.03 : 147.72	101.7 56.03 : 147.72	104.13 56.03 : 147.72	104.4 56.03 : 147.72	148.26 56.03 : 147.72	77.93 56.03 : 147.72
PFOSA (Raw)	TM440	98.15 53.10 : 140.00	100.33 53.10 : 140.00	112.43 53.10 : 140.00	112.98 53.10 : 140.00	94.83 53.10 : 140.00	76.32 53.10 : 140.00
PFPA (Raw)	TM440	92.96 53.89 : 142.06	102.33 53.89 : 142.06	108.18 53.89 : 142.06	115.33 53.89 : 142.06	98.86 53.89 : 142.06	91.1 53.89 : 142.06
PFPeS (Raw)	TM440	102.64 54.30 : 143.15	100.57 54.30 : 143.15	117.35 54.30 : 143.15	109.92 54.30 : 143.15	100.37 54.30 : 143.15	90.8 54.30 : 143.15
PFTeA (Raw)	TM440	109.56 53.06 : 139.89	118.93 53.06 : 139.89	117.65 53.06 : 139.89	115.06 53.06 : 139.89	106.93 53.06 : 139.89	90.96 53.06 : 139.89
PFTrDA (Raw)	TM440	103.95 51.70 : 136.30	114.96 51.70 : 136.30	116.12 51.70 : 136.30	113.37 51.70 : 136.30	111.27 51.70 : 136.30	94.46 51.70 : 136.30
PFTrDS (Raw)	TM440	109.87 56.24 : 148.26	104.88 56.24 : 148.26	103.9 56.24 : 148.26	115.32 56.24 : 148.26	166.13 56.24 : 148.26	92.08 56.24 : 148.26
PFUnA (Raw)	TM440	100.27 53.35 : 140.65	115.15 53.35 : 140.65	117.52 53.35 : 140.65	121.63 53.35 : 140.65	92.78 53.35 : 140.65	79.44 53.35 : 140.65
PFUnDS (Raw)	TM440	104.38 53.60 : 141.30	107.49 53.60 : 141.30	100.53 53.60 : 141.30	111.52 53.60 : 141.30	158.72 53.60 : 141.30	96.76 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

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Client Ref.: UK-70100310

Report Number: 782337
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Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3251
11CI-PF3OUdS (763051-92-9)	TM434	105.19 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	123.35 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	102.33 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	105.3 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	94.03 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	97.38 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	124.53 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	104.73 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	108.23 71.98 : 136.03
ADONA (919005-14-4)	TM434	107.06 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	103.96 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	83.64 67.92 : 135.38
FBSA (30334-69-1)	TM434	116.85 58.08 : 137.20
FHxSA (41997-13-1)	TM434	111.83 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	98.57 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	103.36 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	110.49 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	109.4 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	85.47 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	84.59 59.26 : 122.86
NFDHA (151772-58-6)	TM434	98.3 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	80.49 62.71 : 118.96
PFBA (375-22-4)	TM434	101.4 67.84 : 130.39
PFBS (375-73-5)	TM434	116.86 90.25 : 126.25
PFDA (335-76-2)	TM434	105.57 68.94 : 132.99
PFDaA (307-55-1)	TM434	104.07 66.19 : 135.04
PFDoS (79780-39-5)	TM434	101.7 65.90 : 146.45



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Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

		QC 3251
PFDS (335-77-3)	TM434	109.11 64.84 : 138.49
PFEESA (113507-82-7)	TM434	114.43 67.24 : 129.19
PFHpA (375-85-9)	TM434	106.51 72.89 : 141.36
PFHpS (375-92-8)	TM434	107.98 72.19 : 155.36
PFHxA (307-24-4)	TM434	100.35 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	105.85 89.96 : 128.14
PFHxS (355-46-4)	TM434	115.14 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	134.6 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	120.63 80.40 : 136.73
PFNA (375-95-1)	TM434	100.89 68.61 : 128.99
PFNS (68259-12-1)	TM434	118.6 70.70 : 130.93
PFOA (335-67-1)	TM434	120.58 74.09 : 143.61
PFODA (16517-11-6)	TM434	98.93 68.70 : 175.88
PFOSA (754-91-6)	TM434	108.74 67.59 : 130.51
PFPA (2706-90-3)	TM434	119.88 74.20 : 140.58
PFPeS (2706-91-4)	TM434	113.0 76.19 : 137.91
PFTeA (376-06-7)	TM434	116.18 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	108.61 71.98 : 130.25
PFUnA (2058-94-8)	TM434	98.31 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	99.19 85.84 : 139.76

pH

Component	Method Code	QC 3202	QC 3204	QC 3234	QC 3236	QC 3240	QC 3262
pH	TM133	100.57 95.29 : 105.24	99.61 95.29 : 105.24	100.64 95.29 : 105.24	99.91 95.29 : 105.24	99.87 95.29 : 105.24	99.87 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

Validated

SDG: 251028-34
Client Ref.: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3289	QC 3234	QC 3207	QC 3212	QC 3215	QC 3220
Total Organic Carbon	TM132	98.5 93.61 : 106.00	96.62 93.61 : 106.00	97.9 93.61 : 106.00	97.47 93.61 : 106.00	97.0 93.61 : 106.00	96.41 93.61 : 106.00

Component	Method Code	QC 3222	QC 3272	QC 3288
Total Organic Carbon	TM132	96.32 93.61 : 106.00	100.21 93.61 : 106.00	97.4 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251028-34
Client Ref: UK-70100310

Report Number: 782337
Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 12 November 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251029-28
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 782959
Order Number: UK-70100310

This report has been revised and directly supersedes 782329 in its entirety.

We received 47 samples on Wednesday October 29, 2025 and 46 of these samples were scheduled for analysis which was completed on Wednesday November 12, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32361255	GR03-SP323-A	ESALS	0.00 - 0.10	27/10/2025
32361283	GR03-SP323-A	ES	0.30 - 0.40	27/10/2025
32361310	GR03-SP323-A	ES	0.40 - 0.50	27/10/2025
32361289	GR03-SP325-A	ES	0.00 - 0.10	27/10/2025
32361291	GR03-SP325-A	ES	0.20 - 0.30	27/10/2025
32361293	GR03-SP325-A	WT	0.20 - 0.30	27/10/2025
32361296	GR03-SP325-A	ES	0.40 - 0.50	27/10/2025
32361337	GR03-SP323-B	ES	0.00 - 0.10	27/10/2025
32361354	GR03-SP323-B	WS	0.00 - 0.50	27/10/2025
32361358	GR03-SP323-B	ES	0.20 - 0.30	27/10/2025
32361361	GR03-SP323-B	ES	0.40 - 0.50	27/10/2025
32361298	GR03-SP325-B	ES	0.10 - 0.20	27/10/2025
32361300	GR03-SP325-B	ES	0.30 - 0.40	27/10/2025
32361302	GR03-SP325-B	ESALS	0.50 - 0.60	27/10/2025
32361364	GR03-SP323-C	ES	0.10 - 0.20	27/10/2025
32361366	GR03-SP323-C	ESALS	0.30 - 0.40	27/10/2025
32361259	GR03-SP323-C	ES	0.50 - 0.60	27/10/2025
32361304	GR03-SP325-C	ES	0.00 - 0.10	27/10/2025
32361306	GR03-SP325-C	WS	0.00 - 0.50	27/10/2025
32361312	GR03-SP325-C	ES	0.30 - 0.40	27/10/2025
32361314	GR03-SP325-C	ES	0.40 - 0.50	27/10/2025
32361261	GR03-SP323-D	ES	0.00 - 0.10	27/10/2025
32361263	GR03-SP323-D	ESALS	0.30 - 0.40	27/10/2025
32361265	GR03-SP323-D	WT	0.30 - 0.40	27/10/2025
32361268	GR03-SP323-D	ES	0.40 - 0.50	27/10/2025
32361319	GR03-SP325-D-S1	ESA1	0.10 - 0.20	27/10/2025
32361321	GR03-SP325-D-S1	ESA2	0.10 - 0.20	27/10/2025
32361323	GR03-SP325-D-S1	ES	0.20 - 0.30	27/10/2025
32361325	GR03-SP325-D-S1	ES	0.50 - 0.60	27/10/2025
32361327	GR03-SP325-D-S2	ESA1	0.10 - 0.20	27/10/2025
32361329	GR03-SP325-D-S2	ESA2	0.10 - 0.20	27/10/2025
32361332	GR03-SP325-E	ESALS	0.00 - 0.10	27/10/2025
32361335	GR03-SP325-E	ES	0.20 - 0.30	27/10/2025
32361339	GR03-SP325-E	ES	0.40 - 0.50	27/10/2025
32361270	GR03-SP323-E-S1	ES	0.10 - 0.20	27/10/2025
32361272	GR03-SP323-E-S1	ES	0.20 - 0.30	27/10/2025
32361274	GR03-SP323-E-S1	ESA1	0.50 - 0.60	27/10/2025
32361277	GR03-SP323-E-S1	ESA2	0.50 - 0.60	27/10/2025
32361280	GR03-SP323-E-S2	ESA1	0.50 - 0.60	27/10/2025
32361287	GR03-SP323-E-S2	ESA2	0.50 - 0.60	27/10/2025
32361341	GR03-SP325-F	ESALS	0.10 - 0.20	27/10/2025
32361343	GR03-SP325-F	ES	0.30 - 0.40	27/10/2025
32361345	GR03-SP325-F	ES	0.50 - 0.60	27/10/2025
32361251	GR03-SP325-F-T		0.10 - 0.20	27/10/2025
32361347	GR03-SP325-G	ES	0.00 - 0.10	27/10/2025
32361349	GR03-SP325-G	ES	0.30 - 0.40	27/10/2025
32361351	GR03-SP325-G	ES	0.40 - 0.50	27/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32361306	GR03-SP325-C	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
	32361304	GR03-SP325-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32361259	GR03-SP323-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32361366	GR03-SP323-C	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32361364	GR03-SP323-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32361302	GR03-SP325-B	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32361300	GR03-SP325-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32361298	GR03-SP325-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32361361	GR03-SP323-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32361358	GR03-SP323-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32361354	GR03-SP323-B	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
PFAS Liquids (Full Suite)	32361337	GR03-SP323-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32361296	GR03-SP325-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32361293	GR03-SP325-A	WT	0.20 - 0.30	50ml digitube (ALE001)	PW						
	32361291	GR03-SP325-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32361289	GR03-SP325-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32361310	GR03-SP323-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
pH	32361283	GR03-SP323-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32361255	GR03-SP323-A	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
Sample description												
Total Organic Carbon												

32361287	GR03-SP323-E-S2	ESA2	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361280	GR03-SP323-E-S2	ESA1	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361277	GR03-SP323-E-S1	ESA2	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361274	GR03-SP323-E-S1	ESA1	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361272	GR03-SP323-E-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361270	GR03-SP323-E-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361339	GR03-SP325-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361335	GR03-SP325-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361332	GR03-SP325-E	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361329	GR03-SP325-D-S2	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361327	GR03-SP325-D-S2	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361325	GR03-SP325-D-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361323	GR03-SP325-D-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361321	GR03-SP325-D-S1	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361319	GR03-SP325-D-S1	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361268	GR03-SP323-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361265	GR03-SP323-D	WT	0.30 - 0.40	50ml digitube (ALE001)	PW		X									
32361263	GR03-SP323-D	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361261	GR03-SP323-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361314	GR03-SP325-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X			X			X
32361312	GR03-SP325-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X			X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS in soils

All

NDPs: 0
Tests: 42

X X X X X X

pH

All

NDPs: 0
Tests: 42

X X X X X X

Sample description

All

NDPs: 0
Tests: 39

X X X X X

Total Organic Carbon

All

NDPs: 0
Tests: 42

X X X X X X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32361255	GR03-SP323-A	0.00 - 0.10	Light Brown	Silty Clay Loam	Vegetation	None
32361283	GR03-SP323-A	0.30 - 0.40	Light Brown	Silty Clay	Stones	Vegetation
32361310	GR03-SP323-A	0.40 - 0.50	Light Brown	Silt Loam	Vegetation	None
32361289	GR03-SP325-A	0.00 - 0.10	Dark Brown	Silt Loam	Stones	Vegetation
32361291	GR03-SP325-A	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32361296	GR03-SP325-A	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32361337	GR03-SP323-B	0.00 - 0.10	Light Brown	Clay Loam	Vegetation	None
32361358	GR03-SP323-B	0.20 - 0.30	Light Brown	Silt Loam	Stones	Vegetation
32361361	GR03-SP323-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32361298	GR03-SP325-B	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32361300	GR03-SP325-B	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32361302	GR03-SP325-B	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361259	GR03-SP323-C	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None
32361364	GR03-SP323-C	0.10 - 0.20	Light Brown	Silt Loam	Stones	Vegetation
32361366	GR03-SP323-C	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32361304	GR03-SP325-C	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361312	GR03-SP325-C	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361314	GR03-SP325-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361261	GR03-SP323-D	0.00 - 0.10	Light Brown	Silty Clay Loam	Tile/Insulation Board	Stones
32361263	GR03-SP323-D	0.30 - 0.40	Light Brown	Silt Loam	Stones	Vegetation
32361268	GR03-SP323-D	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Brick
32361319	GR03-SP325-D-S1	0.10 - 0.20	Dark Brown	Silt Loam	Stones	Vegetation
32361321	GR03-SP325-D-S1	0.10 - 0.20	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361323	GR03-SP325-D-S1	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361325	GR03-SP325-D-S1	0.50 - 0.60	Light Brown	Silt Loam	Stones	Vegetation
32361327	GR03-SP325-D-S2	0.10 - 0.20	Light Brown	Silt Loam	Stones	Vegetation
32361329	GR03-SP325-D-S2	0.10 - 0.20	Light Brown	Silt Loam	Stones	Vegetation
32361332	GR03-SP325-E	0.00 - 0.10	Dark Brown	Silt Loam	Stones	Vegetation
32361335	GR03-SP325-E	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361339	GR03-SP325-E	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32361270	GR03-SP323-E-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32361272	GR03-SP323-E-S1	0.20 - 0.30	Light Brown	Silty Clay Loam	Vegetation	None
32361274	GR03-SP323-E-S1	0.50 - 0.60	Light Brown	Clay Loam	Vegetation	None
32361277	GR03-SP323-E-S1	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32361280	GR03-SP323-E-S2	0.50 - 0.60	Light Brown	Clay Loam	Vegetation	None
32361287	GR03-SP323-E-S2	0.50 - 0.60	Light Brown	Clay Loam	Vegetation	None
32361341	GR03-SP325-F	0.10 - 0.20	Dark Brown	Silty Clay	Concrete/Aggregate	Stones
32361343	GR03-SP325-F	0.30 - 0.40	Light Brown	Silty Clay	Stones	Vegetation
32361345	GR03-SP325-F	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation

17:07:51 12/11/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

			Colour	Description	Inclusions	Inclusions 2
32361347	GR03-SP325-G	0.00 - 0.10	Dark Brown	Silt Loam	Stones	Vegetation
32361349	GR03-SP325-G	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32361351	GR03-SP325-G	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.	GR03-SP323-A		GR03-SP323-A		GR03-SP323-A		GR03-SP325-A		GR03-SP325-A		GR03-SP325-A	
#	ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.20 - 0.30					
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)					
aq	Aqueous / settled sample.				27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025					
diss.filt	Dissolved / filtered sample.														
tot.unfilt	Total / unfiltered sample.														
*	Subcontracted - refer to subcontractor report for accreditation status.														
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025					
***	6:2 FTAB (see appendix)				251029-28	251029-28	251029-28	251029-28	251029-28	251029-28					
1-4**§@	Sample deviation (see appendix)				32361255	32361283	32361310	32361289	32361291	32361293					
			ESALS	ES	ES	ES	ES	WT							
Component	LOD/Units	Method													
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434							<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005						
PFPa (2706-90-3)	<0.001 µg/l	TM434							<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065						
Branched PFOS	<0.00065 µg/l	TM434							<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP323-A	GR03-SP323-A	GR03-SP323-A	GR03-SP325-A	GR03-SP325-A	GR03-SP325-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025
diss.filt	Dissolved / filtered sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
tot.unfilt	Total / unfiltered sample.				251029-28	251029-28	251029-28	251029-28	251029-28	251029-28
* Subcontracted - refer to subcontractor report for accreditation status.					32361255	32361283	32361310	32361289	32361291	32361293
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	ES	ES	WT
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
PFechS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024	29	23	17	32	18			
Soil Organic Matter (SOM)	<0.35 %	TM132	4.74	2.67	0.798	10.2	1.98			
			#	#	#	#	#			
pH	1 pH Units	TM133	5.62	5.94	6.42	7.57	8.36			
			M	M	M	M	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.	GR03-SP323-A	GR03-SP323-A	GR03-SP323-A	GR03-SP325-A	GR03-SP325-A	GR03-SP325-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.20 - 0.30
m	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.			27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025
diss.filt	Dissolved / filtered sample.			29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
tot.unfilt	Total / unfiltered sample.			251029-28	251029-28	251029-28	251029-28	251029-28	251029-28
* Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)				32361255 ESALS	32361283 ES	32361310 ES	32361289 ES	32361291 ES	32361293 WT
Component	LOD/Units	Method							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		1.91	2.48	1.66	8.22	3.98	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP325-A	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B	GR03-SP325-B
#	ISO17025 accredited.		0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
***	6:2 FTAB (see appendix)		251029-28	251029-28	251029-28	251029-28	251029-28	251029-28
1-4*§@	Sample deviation (see appendix)		32361296	32361337	32361354	32361358	32361361	32361298
		ES	ES	WS	ES	ES	ES	
Component	LOD/Units	Method			<0.002			
PFBA (375-22-4)	<0.002 µg/l	TM434						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434			<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065			
Branched PFOS	<0.00065 µg/l	TM434			<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP325-A	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B	GR03-SP325-B
# ISO17025 accredited. m mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4* Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361296 ES	0.00 - 0.10 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361337 ES	0.00 - 0.50 Process Water (PR) 27/10/2025 29/10/2025 251029-28 32361354 WS	0.20 - 0.30 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361358 ES	0.40 - 0.50 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361361 ES	0.10 - 0.20 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361298 ES
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024			18	24		22	18	25
Soil Organic Matter (SOM)	<0.35 %	TM132			1.38	4.15		2.71	1.66	4.71
					#	#		#	#	#
pH	1 pH Units	TM133			8.2	5.54		6.21	6.56	7.76
					M	M		M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	1.19		<0.5	<0.5	<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	1.37		<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP325-A	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B	GR03-SP325-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 27/10/2025	0.00 - 0.10 Soil/Solid (S) 27/10/2025	0.00 - 0.50 Process Water (PR) 27/10/2025	0.20 - 0.30 Soil/Solid (S) 27/10/2025	0.40 - 0.50 Soil/Solid (S) 27/10/2025	0.10 - 0.20 Soil/Solid (S) 27/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					29/10/2025 251029-28 32361296 ES	29/10/2025 251029-28 32361337 ES	29/10/2025 251029-28 32361354 WS	29/10/2025 251029-28 32361358 ES	29/10/2025 251029-28 32361361 ES	29/10/2025 251029-28 32361298 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.82	6.49		9.81	10.3	1.69
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	1.22		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP325-B	GR03-SP325-B	GR03-SP323-C	GR03-SP323-C	GR03-SP323-C	GR03-SP325-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025
diss.filt	Dissolved / filtered sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
tot.unfilt	Total / unfiltered sample.				251029-28	251029-28	251029-28	251029-28	251029-28	251029-28
* Subcontracted - refer to subcontractor report for accreditation status.					32361300	32361302	32361364	32361366	32361259	32361304
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ESALS	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	13	20	20	18	32
Soil Organic Matter (SOM)	<0.35 %	TM132			1.62	2.21	2.95	3.03	2.17	7.17
pH	1 pH Units	TM133			8.28	8.32	6.96	7.1	7.16	7.58
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	0.813	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.825	0.732	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.06	20.9	5.03	4.16	7.8	4.5
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	0.724	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	0.854	0.763	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.	GR03-SP325-C	GR03-SP325-C	GR03-SP325-C	GR03-SP323-D	GR03-SP323-D	GR03-SP323-D					
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50 Process Water (PR) 27/10/2025								0.30 - 0.40 Soil/Solid (S) 27/10/2025	0.40 - 0.50 Soil/Solid (S) 27/10/2025	0.00 - 0.10 Soil/Solid (S) 27/10/2025	0.30 - 0.40 Soil/Solid (S) 27/10/2025	0.30 - 0.40 Process Water (PR) 27/10/2025
M mCERTS accredited.														
aq Aqueous / settled sample.														
diss.filt Dissolved / filtered sample.														
tot.unfiltTotal / unfiltered sample.														
* Subcontracted - refer to subcontractor report for accreditation status.														
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery														
*** 6:2 FTAB (see appendix)														
1-4*§@ Sample deviation (see appendix)														
Component	LOD/Units	Method												
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002						<0.002					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						<0.00065					
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002						<0.002					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.	GR03-SP325-C	GR03-SP325-C	GR03-SP325-C	GR03-SP323-D	GR03-SP323-D	GR03-SP323-D
# ISO17025 accredited. m mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50 Process Water (PR) 27/10/2025 29/10/2025 251029-28 32361306 WS	0.30 - 0.40 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361312 ES	0.40 - 0.50 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361314 ES	0.00 - 0.10 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361261 ES	0.30 - 0.40 Soil/Solid (S) 27/10/2025 29/10/2025 251029-28 32361263 ESALS	0.30 - 0.40 Process Water (PR) 27/10/2025 29/10/2025 251029-28 32361265 WT
Component	LOD/Units	Method							
PFDaA (307-55-1)	<0.002 µg/l	TM434		<0.002					<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.002					<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434		<0.003					<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.002					<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.002					<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.001					<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.002					<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.002					<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.001					<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.01					<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434		<0.001					<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.01					<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.001					<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434		<0.001					<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.01					<0.01
Total PFOS	<0.00065 µg/l	TM434		<0.00065					<0.00065
PFechS (646-83-3)	<0.001 µg/l	TM434		<0.001					<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.001					<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			20	18	24	19	
Soil Organic Matter (SOM)	<0.35 %	TM132			2.41 #	1.79 #	3.36 #	1.46 #	
pH	1 pH Units	TM133			8.1 M	8.46 M	6.18 M	6.83 M	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP325-C	GR03-SP325-C	GR03-SP325-C	GR03-SP323-D	GR03-SP323-D	GR03-SP323-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.50 Process Water (PR) 27/10/2025	0.30 - 0.40 Soil/Solid (S) 27/10/2025	0.40 - 0.50 Soil/Solid (S) 27/10/2025	0.00 - 0.10 Soil/Solid (S) 27/10/2025	0.30 - 0.40 Soil/Solid (S) 27/10/2025	0.30 - 0.40 Process Water (PR) 27/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					29/10/2025 251029-28 32361306 WS	29/10/2025 251029-28 32361312 ES	29/10/2025 251029-28 32361314 ES	29/10/2025 251029-28 32361261 ES	29/10/2025 251029-28 32361263 ESALS	29/10/2025 251029-28 32361265 WT
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440				1.73	2.67	3.09	3.99	
PFHxS (355-46-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440				<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440				<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440				<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440				<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440				<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP323-D	GR03-SP325-D-S1	GR03-SP325-D-S1	GR03-SP325-D-S1	GR03-SP325-D-S1	GR03-SP325-D-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025
diss.filt	Dissolved / filtered sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
tot.unfilt	Total / unfiltered sample.				251029-28	251029-28	251029-28	251029-28	251029-28	251029-28
* Subcontracted - refer to subcontractor report for accreditation status.					32361268	32361319	32361321	32361323	32361325	32361327
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESA1	ESA2	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			18	29	26	17	18	30
Soil Organic Matter (SOM)	<0.35 %	TM132			1.13	7.81	5.1	2.45	2.93	6.71
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.77	7.58	7.85	8.11	7.17	7.44
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.05	7.87	5.36	2.12	33.8	4.12
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

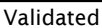
Validated

SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP325-D-S2	GR03-SP325-E	GR03-SP325-E	GR03-SP325-E	GR03-SP323-E-S1	GR03-SP323-E-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20 Soil/Solid (S) 27/10/2025	0.00 - 0.10 Soil/Solid (S) 27/10/2025	0.20 - 0.30 Soil/Solid (S) 27/10/2025	0.40 - 0.50 Soil/Solid (S) 27/10/2025	0.10 - 0.20 Soil/Solid (S) 27/10/2025	0.20 - 0.30 Soil/Solid (S) 27/10/2025
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			34	40	18	12	19	16
Soil Organic Matter (SOM)	<0.35 %	TM132			9.36	11.3	2.21	1.39	3.22	1.79
pH	1 pH Units	TM133			7.57	6.96	8.32	8.49	6.14	6.62
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	0.659	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			6.33	6.35	1.76	6.26	2.86	2.2
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



SDG: 251029-28
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Location: Thornton Phase 3

17:07:51 12/11/2025



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SDG: 251029-28
Client Ref.: UK-70100310

Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP323-E-S1	GR03-SP323-E-S1	GR03-SP323-E-S2	GR03-SP323-E-S2	GR03-SP325-F	GR03-SP325-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025
diss.filt	Dissolved / filtered sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
tot.unfilt	Total / unfiltered sample.				251029-28	251029-28	251029-28	251029-28	251029-28	251029-28
* Subcontracted - refer to subcontractor report for accreditation status.					32361274	32361277	32361280	32361287	32361341	32361343
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ESA1	ESA2	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	17	16	17	27	18
Soil Organic Matter (SOM)	<0.35 %	TM132			1.12	0.965	1.06	1.35	6.36	1.79
pH	1 pH Units	TM133			#	#	#	#	#	#
PFBA (375-22-4)	<0.5 µg/kg	TM440			M	M	M	M	M	M
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.57	3.08	3.43	4.55	3.53	1.33
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



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Report Number: 782959
Location: Thornton Phase 3

Superseded Report: 782329

Results Legend			Customer Sample Ref.		GR03-SP325-F	GR03-SP325-G	GR03-SP325-G	GR03-SP325-G		
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 27/10/2025	0.00 - 0.10 Soil/Solid (S) 27/10/2025	0.30 - 0.40 Soil/Solid (S) 27/10/2025	0.40 - 0.50 Soil/Solid (S) 27/10/2025		
diss.filt Dissolved / filtered sample.	tot.unfilt Total / unfiltered sample.	* Subcontracted - refer to subcontractor report for accreditation status.			29/10/2025 251029-28 32361345 ES	29/10/2025 251029-28 32361347 ES	29/10/2025 251029-28 32361349 ES	29/10/2025 251029-28 32361351 ES		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	*** 6:2 FTAB (see appendix)	1-4**@ Sample deviation (see appendix)								
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			15	46	18	17		
Soil Organic Matter (SOM)	<0.35 %	TM132			2.05	13.4	1.13	0.89		
pH	1 pH Units	TM133			8.29	6.4	8.36	8.49		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.06	3.73	2.33	1.55		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		

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Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32361255	32361283	32361310	32361289	32361291	32361293	32361296	32361337	32361354	32361358
	GR03-SP323-A	GR03-SP323-A	GR03-SP323-A	GR03-SP325-A	GR03-SP325-A	GR03-SP325-A	GR03-SP325-A	GR03-SP323-B	GR03-SP323-B	GR03-SP323-B
	ESALS	ES	ES	ES	ES	WT	ES	ES	WS	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	12-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025		03-Nov-2025	03-Nov-2025		03-Nov-2025
PFAS Liquids (Full Suite)						05-Nov-2025			05-Nov-2025	
pH	31-Oct-2025	31-Oct-2025	30-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025	31-Oct-2025		31-Oct-2025
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025		29-Oct-2025	29-Oct-2025		29-Oct-2025
Total Organic Carbon	04-Nov-2025	04-Nov-2025	04-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025	05-Nov-2025		04-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32361361	32361298	32361300	32361302	32361259	32361364	32361366	32361304	32361306	32361312
	GR03-SP323-B	GR03-SP325-B	GR03-SP325-B	GR03-SP325-B	GR03-SP323-C	GR03-SP323-C	GR03-SP323-C	GR03-SP325-C	GR03-SP325-C	GR03-SP325-C
	ES	ES	ES	ESALS	ES	ES	ESALS	ES	WS	ES
	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	05-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025		03-Nov-2025
PFAS Liquids (Full Suite)									05-Nov-2025	
pH	30-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025		29-Oct-2025
Total Organic Carbon	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	04-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32361314	32361261	32361263	32361265	32361268	32361319	32361321	32361323	32361325	32361327
	GR03-SP325-C	GR03-SP323-D	GR03-SP323-D	GR03-SP323-D	GR03-SP323-D	GR03-SP325-D-S1	GR03-SP325-D-S1	GR03-SP325-D-S1	GR03-SP325-D-S1	GR03-SP325-D-S2
	ES	ES	ESALS	WT	ES	ESA1	ESA2	ES	ES	ESA1
	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025		03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025
PFAS Liquids (Full Suite)				05-Nov-2025						
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025		31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025		29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025
Total Organic Carbon	04-Nov-2025	05-Nov-2025	04-Nov-2025		06-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	06-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32361329	32361332	32361335	32361339	32361270	32361272	32361274	32361277	32361280	32361287
	GR03-SP325-D-S2	GR03-SP325-E	GR03-SP325-E	GR03-SP325-E	GR03-SP323-E-S1	GR03-SP323-E-S1	GR03-SP323-E-S1	GR03-SP323-E-S1	GR03-SP323-E-S2	GR03-SP323-E-S2
	ESA2	ESALS	ES	ES	ES	ES	ESA1	ESA2	ESA1	ESA2
	0.10 - 0.20	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025
pH	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	30-Oct-2025	31-Oct-2025	31-Oct-2025
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025
Total Organic Carbon	06-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32361341	32361343	32361345	32361347	32361349	32361351				
	GR03-SP325-F	GR03-SP325-F	GR03-SP325-F	GR03-SP325-G	GR03-SP325-G	GR03-SP325-G				
	ESALS	ES	ES	ES	ES	ES				
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50				
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)				
PFAS in soils	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025				
pH	30-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025	31-Oct-2025				
Sample description	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025	29-Oct-2025				
Total Organic Carbon	05-Nov-2025	04-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025				



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3226	QC 3233	QC 3257	QC 3289	QC 3259
10:2 FTS (Raw)	TM440	116.54 53.10 : 140.00	118.32 53.10 : 140.00	117.69 53.10 : 140.00	83.81 53.10 : 140.00	96.48 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	114.16 53.56 : 141.19	101.82 53.56 : 141.19	111.04 53.56 : 141.19	90.7 53.56 : 141.19	73.75 53.56 : 141.19
3:3 FTCA (Raw)	TM440	100.02 50.54 : 133.25	101.07 50.54 : 133.25	101.75 50.54 : 133.25	90.11 50.54 : 133.25	84.4 50.54 : 133.25
4:2 FTS (Raw)	TM440	122.87 56.34 : 145.91	126.78 56.34 : 145.91	127.28 56.34 : 145.91	96.26 56.34 : 145.91	88.6 56.34 : 145.91
5:3 FTCA (Raw)	TM440	112.29 52.66 : 130.08	99.95 52.66 : 130.08	104.33 52.66 : 130.08	82.63 52.66 : 130.08	87.68 52.66 : 130.08
6:2 FTAB (Raw)	TM440	50.98 38.50 : 101.50	59.63 38.50 : 101.50	42.92 38.50 : 101.50	35.26 38.50 : 101.50	37.92 38.50 : 101.50
6:2 FTS (Raw)	TM440	123.3 54.79 : 144.46	125.53 54.79 : 144.46	112.77 54.79 : 144.46	93.35 54.79 : 144.46	93.0 54.79 : 144.46
7:3 FTCA (Raw)	TM440	105.42 48.60 : 128.14	109.9 48.60 : 128.14	102.71 48.60 : 128.14	89.18 48.60 : 128.14	75.5 48.60 : 128.14
8:2 diPAP (Raw)	TM440	103.44 56.03 : 147.72	116.76 56.03 : 147.72	124.4 56.03 : 147.72	89.62 56.03 : 147.72	100.73 56.03 : 147.72
8:2 FTS (Raw)	TM440	130.32 55.74 : 146.96	121.61 55.74 : 146.96	111.28 55.74 : 146.96	92.46 55.74 : 146.96	79.09 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	108.03 54.59 : 143.91	101.34 54.59 : 143.91	107.91 54.59 : 143.91	89.09 54.59 : 143.91	85.5 54.59 : 143.91
ADONA (Raw)	TM440	118.05 54.01 : 132.33	118.07 54.01 : 132.33	111.68 54.01 : 132.33	83.25 54.01 : 132.33	79.74 54.01 : 132.33
Branched PFOS (Raw)	TM440	109.29 54.09 : 142.61	98.79 54.09 : 142.61	104.98 54.09 : 142.61	94.42 54.09 : 142.61	89.77 54.09 : 142.61
EtFOSAA (Raw)	TM440	122.29 52.48 : 138.36	109.78 52.48 : 138.36	117.67 52.48 : 138.36	95.27 52.48 : 138.36	70.3 52.48 : 138.36
EtFOSE (Raw)	TM440	119.53 57.05 : 145.29	117.92 57.05 : 145.29	118.64 57.05 : 145.29	88.96 57.05 : 145.29	81.18 57.05 : 145.29
FBSA (Raw)	TM440	106.75 49.51 : 125.13	108.62 49.51 : 125.13	112.0 49.51 : 125.13	82.92 49.51 : 125.13	76.74 49.51 : 125.13
FHxSA (Raw)	TM440	116.66 50.38 : 132.82	113.44 50.38 : 132.82	118.85 50.38 : 132.82	85.97 50.38 : 132.82	71.66 50.38 : 132.82
HFPO-DA (Raw)	TM440	122.31 53.47 : 140.98	125.11 53.47 : 140.98	124.89 53.47 : 140.98	92.01 53.47 : 140.98	80.23 53.47 : 140.98
HFPO-TA (Raw)	TM440	128.09 54.77 : 144.39	118.23 54.77 : 144.39	126.51 54.77 : 144.39	92.24 54.77 : 144.39	91.27 54.77 : 144.39
L-PFOS (Raw)	TM440	70.8 54.09 : 142.61	98.79 54.09 : 142.61	104.98 54.09 : 142.61	94.42 54.09 : 142.61	89.77 54.09 : 142.61
MeFOSAA (Raw)	TM440	103.65 53.02 : 139.78	109.17 53.02 : 139.78	113.3 53.02 : 139.78	88.66 53.02 : 139.78	80.97 53.02 : 139.78
MeFOSE (Raw)	TM440	127.78 54.99 : 144.97	125.63 54.99 : 144.97	116.36 54.99 : 144.97	82.91 54.99 : 144.97	72.4 54.99 : 144.97
N-EtFOSA (Raw)	TM440	114.39 59.56 : 132.93	116.11 59.56 : 132.93	120.73 59.56 : 132.93	100.83 59.56 : 132.93	74.76 59.56 : 132.93
NFDHA (Raw)	TM440	112.88 57.35 : 151.20	107.5 57.35 : 151.20	111.06 57.35 : 151.20	81.15 57.35 : 151.20	83.38 57.35 : 151.20
N-MeFOSA (Raw)	TM440	113.24 59.19 : 133.01	117.45 59.19 : 133.01	116.68 59.19 : 133.01	96.24 59.19 : 133.01	73.8 59.19 : 133.01
PFBA (Raw)	TM440	113.37 52.69 : 138.91	117.76 52.69 : 138.91	115.64 52.69 : 138.91	82.31 52.69 : 138.91	85.13 52.69 : 138.91



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PFAS in soils

		QC 3226	QC 3233	QC 3257	QC 3289	QC 3259
PFBS (Raw)	TM440	113.54 53.31 : 140.54	109.31 53.31 : 140.54	110.09 53.31 : 140.54	83.63 53.31 : 140.54	76.57 53.31 : 140.54
PFDA (Raw)	TM440	123.69 53.39 : 140.76	125.52 53.39 : 140.76	125.9 53.39 : 140.76	88.43 53.39 : 140.76	79.54 53.39 : 140.76
PFDoA (Raw)	TM440	113.11 52.85 : 139.34	120.03 52.85 : 139.34	114.94 52.85 : 139.34	92.14 52.85 : 139.34	79.59 52.85 : 139.34
PFDoS (Raw)	TM440	108.5 55.29 : 145.76	100.04 55.29 : 145.76	114.56 55.29 : 145.76	92.15 55.29 : 145.76	75.13 55.29 : 145.76
PFDS (Raw)	TM440	108.5 52.94 : 139.56	104.12 52.94 : 139.56	108.05 52.94 : 139.56	87.5 52.94 : 139.56	77.72 52.94 : 139.56
PFecHS (Raw)	TM440	111.89 50.75 : 133.80	113.8 50.75 : 133.80	108.06 50.75 : 133.80	88.67 50.75 : 133.80	83.55 50.75 : 133.80
PFEESA (Raw)	TM440	113.95 50.87 : 134.12	101.42 50.87 : 134.12	99.11 50.87 : 134.12	80.38 50.87 : 134.12	86.69 50.87 : 134.12
PFHpA (Raw)	TM440	119.12 52.61 : 138.69	119.39 52.61 : 138.69	113.09 52.61 : 138.69	83.25 52.61 : 138.69	83.71 52.61 : 138.69
PFHpS (Raw)	TM440	102.46 55.29 : 145.76	102.71 55.29 : 145.76	106.71 55.29 : 145.76	91.61 55.29 : 145.76	85.9 55.29 : 145.76
PFHxA (Raw)	TM440	118.71 54.05 : 142.50	115.92 54.05 : 142.50	116.41 54.05 : 142.50	82.99 54.05 : 142.50	81.14 54.05 : 142.50
PFHxDA (Raw)	TM440	110.28 52.03 : 137.17	109.8 52.03 : 137.17	108.71 52.03 : 137.17	82.19 52.03 : 137.17	80.16 52.03 : 137.17
PFHxS (Raw)	TM440	121.28 53.56 : 141.19	111.52 53.56 : 141.19	112.84 53.56 : 141.19	88.56 53.56 : 141.19	84.54 53.56 : 141.19
PFMOBA (Raw)	TM440	101.25 52.73 : 139.02	105.2 52.73 : 139.02	113.56 52.73 : 139.02	87.23 52.73 : 139.02	75.58 52.73 : 139.02
PFMOPra (Raw)	TM440	90.01 52.57 : 138.58	90.95 52.57 : 138.58	91.14 52.57 : 138.58	82.69 52.57 : 138.58	82.6 52.57 : 138.58
PFNA (Raw)	TM440	122.43 52.94 : 139.56	121.45 52.94 : 139.56	114.5 52.94 : 139.56	87.75 52.94 : 139.56	91.98 52.94 : 139.56
PFNS (Raw)	TM440	107.39 54.38 : 143.37	103.36 54.38 : 143.37	107.73 54.38 : 143.37	87.14 54.38 : 143.37	86.54 54.38 : 143.37
PFOA (Raw)	TM440	120.28 53.80 : 141.85	121.32 53.80 : 141.85	121.7 53.80 : 141.85	87.56 53.80 : 141.85	79.6 53.80 : 141.85
PFODA (Raw)	TM440	109.07 56.03 : 147.72	104.13 56.03 : 147.72	104.4 56.03 : 147.72	77.93 56.03 : 147.72	76.27 56.03 : 147.72
PFOSA (Raw)	TM440	110.34 53.10 : 140.00	112.43 53.10 : 140.00	112.98 53.10 : 140.00	76.32 53.10 : 140.00	78.06 53.10 : 140.00
PFFPA (Raw)	TM440	112.9 53.89 : 142.06	108.18 53.89 : 142.06	115.33 53.89 : 142.06	91.1 53.89 : 142.06	76.16 53.89 : 142.06
PFPeS (Raw)	TM440	121.96 54.30 : 143.15	117.35 54.30 : 143.15	109.92 54.30 : 143.15	90.8 54.30 : 143.15	88.49 54.30 : 143.15
PFTeA (Raw)	TM440	121.96 53.06 : 139.89	117.65 53.06 : 139.89	115.06 53.06 : 139.89	90.96 53.06 : 139.89	88.19 53.06 : 139.89
PFTrDA (Raw)	TM440	115.06 51.70 : 136.30	116.12 51.70 : 136.30	113.37 51.70 : 136.30	94.46 51.70 : 136.30	86.86 51.70 : 136.30
PFTrDS (Raw)	TM440	114.11 56.24 : 148.26	103.9 56.24 : 148.26	115.32 56.24 : 148.26	92.08 56.24 : 148.26	74.07 56.24 : 148.26
PFUnA (Raw)	TM440	119.0 53.35 : 140.65	117.52 53.35 : 140.65	121.63 53.35 : 140.65	79.44 53.35 : 140.65	79.98 53.35 : 140.65
PFUnDS (Raw)	TM440	116.18 53.60 : 141.30	100.53 53.60 : 141.30	111.52 53.60 : 141.30	96.76 53.60 : 141.30	77.74 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3268	QC 3284
11CI-PF3OUdS (763051-92-9)	TM434	113.28 62.16 : 138.51	170.33 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	140.85 89.89 : 130.69	130.57 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	107.66 66.54 : 140.56	114.27 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	117.22 60.34 : 133.39	130.53 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	100.45 59.12 : 129.56	125.88 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	100.51 67.48 : 129.58	116.98 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	136.43 79.83 : 133.08	141.18 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	104.38 81.70 : 132.18	102.05 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	110.14 71.98 : 136.03	98.78 71.98 : 136.03
ADONA (919005-14-4)	TM434	111.71 70.14 : 142.14	140.59 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	98.88 67.04 : 131.16	98.03 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	86.46 67.92 : 135.38	98.59 67.92 : 135.38
FBSA (30334-69-1)	TM434	134.75 58.08 : 137.20	148.18 58.08 : 137.20
FHxSA (41997-13-1)	TM434	126.68 71.81 : 148.16	139.21 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	103.73 57.03 : 123.70	110.84 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	112.57 55.94 : 147.48	108.25 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	105.06 69.95 : 145.18	115.85 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	117.16 68.44 : 128.29	107.63 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	83.87 70.83 : 132.00	103.32 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	88.81 59.26 : 122.86	104.21 59.26 : 122.86
NFDHA (151772-58-6)	TM434	104.33 59.99 : 133.56	116.63 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	83.43 62.71 : 118.96	106.21 62.71 : 118.96
PFBA (375-22-4)	TM434	103.35 67.84 : 130.39	106.58 67.84 : 130.39
PFBS (375-73-5)	TM434	119.59 90.25 : 126.25	122.36 90.25 : 126.25
PFDA (335-76-2)	TM434	102.12 68.94 : 132.99	123.84 68.94 : 132.99
PFDaA (307-55-1)	TM434	106.43 66.19 : 135.04	106.88 66.19 : 135.04
PFDoS (79780-39-5)	TM434	108.29 65.90 : 146.45	98.88 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3268	QC 3284
PFDS (335-77-3)	TM434	112.28 64.84 : 138.49	93.79 64.84 : 138.49
PFEESA (113507-82-7)	TM434	118.47 67.24 : 129.19	122.75 67.24 : 129.19
PFHpA (375-85-9)	TM434	110.79 72.89 : 141.36	109.93 72.89 : 141.36
PFHpS (375-92-8)	TM434	109.18 72.19 : 155.36	115.63 72.19 : 155.36
PFHxA (307-24-4)	TM434	101.33 71.79 : 135.84	112.73 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	111.9 89.96 : 128.14	112.57 89.96 : 128.14
PFHxS (355-46-4)	TM434	114.36 84.41 : 134.44	110.05 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	161.78 84.99 : 139.74	108.55 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	130.13 80.40 : 136.73	130.29 80.40 : 136.73
PFNA (375-95-1)	TM434	101.89 68.61 : 128.99	105.08 68.61 : 128.99
PFNS (68259-12-1)	TM434	117.06 70.70 : 130.93	121.54 70.70 : 130.93
PFOA (335-67-1)	TM434	122.29 74.09 : 143.61	126.04 74.09 : 143.61
PFODA (16517-11-6)	TM434	115.12 68.70 : 175.88	120.35 68.70 : 175.88
PFOSA (754-91-6)	TM434	103.84 67.59 : 130.51	108.35 67.59 : 130.51
PFPA (2706-90-3)	TM434	122.58 74.20 : 140.58	123.22 74.20 : 140.58
PFPeS (2706-91-4)	TM434	109.02 76.19 : 137.91	110.46 76.19 : 137.91
PFTeA (376-06-7)	TM434	113.8 66.36 : 144.96	104.33 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	110.78 71.98 : 130.25	88.69 71.98 : 130.25
PFUnA (2058-94-8)	TM434	99.83 65.55 : 141.45	128.42 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	103.34 85.84 : 139.76	90.27 85.84 : 139.76

pH

Component	Method Code	QC 3270	QC 3234	QC 3238	QC 3240	QC 3262
pH	TM133	100.46 95.29 : 105.24	100.64 95.29 : 105.24	99.69 95.29 : 105.24	99.87 95.29 : 105.24	99.87 95.29 : 105.24

Total Organic Carbon



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Total Organic Carbon

Component	Method Code	QC 3234	QC 3207	QC 3212	QC 3215	QC 3222	QC 3272
Total Organic Carbon	TM132	96.62 93.61 : 106.00	97.9 93.61 : 106.00	97.47 93.61 : 106.00	97.0 93.61 : 106.00	96.32 93.61 : 106.00	100.21 93.61 : 106.00

Component	Method Code	QC 3278
Total Organic Carbon	TM132	98.16 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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Manchester
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Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	14 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251031-20
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	783169
Order Number:	UK-70100310

We received 46 samples on Friday October 31, 2025 and 46 of these samples were scheduled for analysis which was completed on Friday November 14, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32375562	GR03-SP306-A	ES	0.10 - 0.20	28/10/2025
32375595	GR03-SP306-A	ES	0.30 - 0.40	28/10/2025
32375628	GR03-SP306-A	ES	0.50 - 0.60	28/10/2025
32375592	GR04-SP409-A	ES	0.10 - 0.20	28/10/2025
32375598	GR04-SP409-A	ES	0.20 - 0.30	28/10/2025
32375601	GR04-SP409-A	ES	0.50 - 0.55	28/10/2025
32375622	GR04-SP413-A	ES	0.10 - 0.20	28/10/2025
32375625	GR04-SP413-A	ES	0.32	28/10/2025
32375631	GR04-SP413-A	ES	0.50 - 0.60	28/10/2025
32375659	GR03-SP306-B	ES	0.00 - 0.10	28/10/2025
32375675	GR03-SP306-B	ESALS	0.20 - 0.30	28/10/2025
32375677	GR03-SP306-B	ES	0.40 - 0.50	28/10/2025
32375604	GR04-SP409-B	ES	0.00 - 0.10	28/10/2025
32375607	GR04-SP409-B	ESALS	0.20 - 0.30	28/10/2025
32375610	GR04-SP409-B	ES	0.40 - 0.50	28/10/2025
32375634	GR04-SP413-B	ES	0.00 - 0.10	28/10/2025
32375637	GR04-SP413-B	ES	0.20 - 0.30	28/10/2025
32375640	GR04-SP413-B	ES	0.40 - 0.50	28/10/2025
32375643	GR04-SP413-B	WT	0.40 - 0.50	28/10/2025
32375613	GR04-SP409-C	ES	0.10 - 0.20	28/10/2025
32375616	GR04-SP409-C	ESALS	0.30 - 0.40	28/10/2025
32375619	GR04-SP409-C	ES	0.50 - 0.60	28/10/2025
32375679	GR03-SP306-C-S1	ESA1	0.10 - 0.20	28/10/2025
32375681	GR03-SP306-C-S1	ESA2	0.10 - 0.20	28/10/2025
32375683	GR03-SP306-C-S1	ES	0.20 - 0.30	28/10/2025
32375565	GR03-SP306-C-S1	ES	0.50 - 0.60	28/10/2025
32375568	GR03-SP306-C-S2	ESA1	0.10 - 0.20	28/10/2025
32375571	GR03-SP306-C-S2	ESA2	0.10 - 0.20	28/10/2025
32375648	GR04-SP413-C-S1	ESA1	0.10 - 0.20	28/10/2025
32375651	GR04-SP413-C-S1	ESA2	0.10 - 0.20	28/10/2025
32375653	GR04-SP413-C-S1	ES	0.30 - 0.40	28/10/2025
32375655	GR04-SP413-C-S1	ESALS	0.50 - 0.60	28/10/2025
32375657	GR04-SP413-C-S2	ESA1	0.10 - 0.20	28/10/2025
32375661	GR04-SP413-C-S2	ESA2	0.10 - 0.20	28/10/2025
32375575	GR03-SP306-D	ES	0.00 - 0.10	28/10/2025
32375577	GR03-SP306-D	ES	0.20 - 0.30	28/10/2025
32375580	GR03-SP306-D	ES	0.40 - 0.50	28/10/2025
32375663	GR04-SP413-D	ES	0.00 - 0.10	28/10/2025
32375665	GR04-SP413-D	ES	0.30 - 0.40	28/10/2025
32375667	GR04-SP413-D	ES	0.40 - 0.50	28/10/2025
32375583	GR03-SP306-E	ES	0.10 - 0.20	28/10/2025
32375586	GR03-SP306-E	ES	0.30 - 0.40	28/10/2025
32375589	GR03-SP306-E	ESALS	0.50 - 0.60	28/10/2025
32375669	GR04-SP413-E	ES	0.10 - 0.20	28/10/2025
32375671	GR04-SP413-E	ES	0.20 - 0.30	28/10/2025
32375673	GR04-SP413-E	ES	0.50 - 0.60	28/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32375643	GR04-SP413-B	WT	0.40 - 0.50	50ml driptube (ALE001)	PW						
	32375640	GR04-SP413-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32375637	GR04-SP413-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375634	GR04-SP413-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32375610	GR04-SP409-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32375607	GR04-SP409-B	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375604	GR04-SP409-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32375677	GR03-SP306-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32375675	GR03-SP306-B	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375659	GR03-SP306-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32375631	GR04-SP413-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32375625	GR04-SP413-A	ES	0.32	1kg TUB with Handle (ALE260)	S						
	32375622	GR04-SP413-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32375601	GR04-SP409-A	ES	0.50 - 0.55	1kg TUB with Handle (ALE260)	S						
	32375598	GR04-SP409-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375592	GR04-SP409-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32375628	GR03-SP306-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32375595	GR03-SP306-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32375562	GR03-SP306-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 1										
pH	All	NDPs: 0 Tests: 45										
Sample description	All	NDPs: 0 Tests: 44										
Total Organic Carbon	All	NDPs: 0 Tests: 45										

32375667	GR04-SP413-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375665	GR04-SP413-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375663	GR04-SP413-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375580	GR03-SP306-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375577	GR03-SP306-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375575	GR03-SP306-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375661	GR04-SP413-C-S2	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375657	GR04-SP413-C-S2	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375655	GR04-SP413-C-S1	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375653	GR04-SP413-C-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375651	GR04-SP413-C-S1	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375648	GR04-SP413-C-S1	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375571	GR03-SP306-C-S2	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375568	GR03-SP306-C-S2	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375565	GR03-SP306-C-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375683	GR03-SP306-C-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375681	GR03-SP306-C-S1	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375679	GR03-SP306-C-S1	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375619	GR04-SP409-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375616	GR04-SP409-C	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X		X
32375613	GR04-SP409-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend

- X** Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

	Lab Sample No(s)		32375583	32375586	32375589	32375669	32375671	32375673
	Customer Sample Reference		GR03-SP306-E	GR03-SP306-E	GR03-SP306-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E
	AGS Reference		ES	ES	ESALS	ES	ES	ES
	Depth (m)		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Container		1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)
	Sample Type		S	S	S	S	S	S
PFAS in soils	All	NDPs: 0 Tests: 45	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 45	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 44	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 45	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32375562	GR03-SP306-A	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32375595	GR03-SP306-A	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32375628	GR03-SP306-A	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32375592	GR04-SP409-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Glass & Stones	Vegetation
32375598	GR04-SP409-A	0.20 - 0.30	Dark Brown	Silt Loam	Stones	Vegetation
32375601	GR04-SP409-A	0.50 - 0.55	Dark Brown	Sandy Clay Loam	Vegetation	Brick
32375622	GR04-SP413-A	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32375625	GR04-SP413-A	0.32	Dark Brown	Silt Loam	Vegetation	None
32375631	GR04-SP413-A	0.50 - 0.60	Light Brown	Silty Clay Loam	None	None
32375659	GR03-SP306-B	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	Stones
32375675	GR03-SP306-B	0.20 - 0.30	Dark Brown	Silt Loam	Vegetation	Stones
32375677	GR03-SP306-B	0.40 - 0.50	Light Brown	Silty Clay	Vegetation	None
32375604	GR04-SP409-B	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375607	GR04-SP409-B	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Vegetation	None
32375610	GR04-SP409-B	0.40 - 0.50	Dark Brown	Silt Loam	Vegetation	None
32375634	GR04-SP413-B	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32375637	GR04-SP413-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32375640	GR04-SP413-B	0.40 - 0.50	Dark Brown	Silt Loam	Vegetation	None
32375613	GR04-SP409-C	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Brick	Glass & Stones
32375616	GR04-SP409-C	0.30 - 0.40	Dark Brown	Silty Clay Loam	Glass & Stones	Vegetation
32375619	GR04-SP409-C	0.50 - 0.60	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32375565	GR03-SP306-C-S1	0.50 - 0.60	Light Brown	Sandy Clay Loam	Vegetation	Stones
32375679	GR03-SP306-C-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Glass
32375681	GR03-SP306-C-S1	0.10 - 0.20	Light Brown	Sandy Clay Loam	Stones	Vegetation
32375683	GR03-SP306-C-S1	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32375568	GR03-SP306-C-S2	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32375571	GR03-SP306-C-S2	0.10 - 0.20	Light Brown	Clay Loam	Stones	Vegetation
32375648	GR04-SP413-C-S1	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32375651	GR04-SP413-C-S1	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375653	GR04-SP413-C-S1	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32375655	GR04-SP413-C-S1	0.50 - 0.60	Dark Brown	Silt Loam	Vegetation	Stones
32375657	GR04-SP413-C-S2	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32375661	GR04-SP413-C-S2	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375575	GR03-SP306-D	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32375577	GR03-SP306-D	0.20 - 0.30	Light Brown	Sandy Silt Loam	Stones	Vegetation
32375580	GR03-SP306-D	0.40 - 0.50	Dark Brown	Silt Loam	Vegetation	None
32375663	GR04-SP413-D	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32375665	GR04-SP413-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375667	GR04-SP413-D	0.40 - 0.50	Dark Brown	Silt Loam	None	None



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32375583	GR03-SP306-E	0.10 - 0.20	Light Brown	Sandy Silt Loam	Stones	Vegetation
32375586	GR03-SP306-E	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32375589	GR03-SP306-E	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation
32375669	GR04-SP413-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375671	GR04-SP413-E	0.20 - 0.30	Dark Brown	Silt Loam	Vegetation	Stones
32375673	GR04-SP413-E	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP306-A	GR03-SP306-A	GR03-SP306-A	GR04-SP409-A	GR04-SP409-A	GR04-SP409-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.55
M mCERTS accredited.					Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.					28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
diss.filt Dissolved / filtered sample.					31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfiltTotal / unfiltered sample.					251031-20	251031-20	251031-20	251031-20	251031-20	251031-20
* Subcontracted - refer to subcontractor report for accreditation status.					32375562	32375595	32375628	32375592	32375598	32375601
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			25	18	17	25	22	25
Soil Organic Matter (SOM)	<0.35 %	TM132			3.76	1.55	1.11	6.74	5.29	4.57
pH	1 pH Units	TM133			7.22	7.67	7.6	7.21	7.35	7.77
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.65	2.88	2.01	5.31	4.18	3.85
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	1.61	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP413-A	GR04-SP413-A	GR04-SP413-A	GR03-SP306-B	GR03-SP306-B	GR03-SP306-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.32	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-20	251031-20	251031-20	251031-20	251031-20	251031-20
* Subcontracted - refer to subcontractor report for accreditation status.					32375622	32375625	32375631	32375659	32375675	32375677
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			27	27	20	25	20	17
Soil Organic Matter (SOM)	<0.35 %	TM132			8.65	9.15	2.97	5.22	2.78	0.76
pH	1 pH Units	TM133			7.37	7.37	7.74	7.34	7.39	7.46
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			25.1	28	6.27	2.78	2.21	1.73
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP409-B	GR04-SP409-B	GR04-SP409-B	GR04-SP413-B	GR04-SP413-B	GR04-SP413-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-20	251031-20	251031-20	251031-20	251031-20	251031-20
Subcontracted - refer to subcontractor report for accreditation status.					32375604	32375607	32375610	32375634	32375637	32375640
% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	ES	ES
6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			27	24	23	39	25	19
Soil Organic Matter (SOM)	<0.35 %	TM132			6.47	5.14	4.29	10.4	8.28	1.46
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.29	6.56	7.04	6.85	6.87	7.56
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.72	3.66	3.3	23.5	23.2	3.37
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	2.09	0.849	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP413-B 0.40 - 0.50 Process Water (PR) 28/10/2025 31/10/2025 251031-20 32375643 WT	GR04-SP409-C 0.10 - 0.20 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375613 ES	GR04-SP409-C 0.30 - 0.40 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375616 ESALS	GR04-SP409-C 0.50 - 0.60 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375619 ES	GR03-SP306-C-S1 0.10 - 0.20 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375679 ESA1	GR03-SP306-C-S1 0.10 - 0.20 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375681 ESA2
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6.2 FTAB (see appendix)								
1-4**\$@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR04-SP413-B	GR04-SP409-C	GR04-SP409-C	GR04-SP409-C	GR03-SP306-C-S1	GR03-SP306-C-S1
#	ISO17025 accredited.		0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20
M	mCERTS accredited.		Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002					
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01					
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434	<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001					
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434	<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01					
Total PFOS	<0.00065 µg/l	TM434	<0.00065					
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001					
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024		28	24	24	22	22
Soil Organic Matter (SOM)	<0.35 %	TM132		5.52 #	4.71 #	5.91 #	2.78 #	2.33 #
pH	1 pH Units	TM133		6.28 M	7.01 M	7.37 M	7.95 M	8 M
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP413-B	GR04-SP409-C	GR04-SP409-C	GR04-SP409-C	GR03-SP306-C-S1	GR03-SP306-C-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Process Water (PR) 28/10/2025	0.10 - 0.20 Soil/Solid (S) 28/10/2025	0.30 - 0.40 Soil/Solid (S) 28/10/2025	0.50 - 0.60 Soil/Solid (S) 28/10/2025	0.10 - 0.20 Soil/Solid (S) 28/10/2025	0.10 - 0.20 Soil/Solid (S) 28/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					31/10/2025 251031-20 32375643 WT	31/10/2025 251031-20 32375613 ES	31/10/2025 251031-20 32375616 ESALS	31/10/2025 251031-20 32375619 ES	31/10/2025 251031-20 32375679 ESA1	31/10/2025 251031-20 32375681 ESA2
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440				4.2	4.12	3.95	3.32	3.16
PFHxS (355-46-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440				<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440				<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440				<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440				1.43	0.814	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440				<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440				<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP306-C-S1	GR03-SP306-C-S1	GR03-SP306-C-S2	GR03-SP306-C-S2	GR04-SP413-C-S1	GR04-SP413-C-S1
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m)	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.10 - 0.20	0.10 - 0.20	0.10 - 0.20
diss.filt Dissolved / filtered sample.			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
tot.unfiltTotal / unfiltered sample.			Date Sampled	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.			Sample Time							
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			Date Received	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
*** 6:2 FTAB (see appendix)			SDG Ref	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20
1-4**\$@ Sample deviation (see appendix)			Lab Sample No.(s)	32375683	32375565	32375568	32375571	32375648	32375651	32375651
			AGS Reference	ES	ES	ESA1	ESA2	ESA1	ESA2	ESA2
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024		23	17	24	20	31	21	
Soil Organic Matter (SOM)	<0.35 %	TM132		3.31	1.1	3.26	2.52	9.1	6.84	
pH	1 pH Units	TM133		7.99	7.85	7.98	7.72	7.75	7.85	
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		2.97	1.79	3.41	3.3	8.24	6.6	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP413-C-S1	GR04-SP413-C-S1	GR04-SP413-C-S2	GR04-SP413-C-S2	GR03-SP306-D	GR03-SP306-D
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	23	20	33	28	27	22	
Soil Organic Matter (SOM)	<0.35 %	TM132	5.12	4.22	8.22	7.91	4.74	3.02	
pH	1 pH Units	TM133	7.85	7.85	7.47	7.77	7.38	7.53	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.68	2.83	4.85	6.42	1.96	2.62	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP306-D	GR04-SP413-D	GR04-SP413-D	GR04-SP413-D	GR03-SP306-E	GR03-SP306-E						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375580 ES								0.00 - 0.10 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375663 ES	0.30 - 0.40 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375665 ES	0.40 - 0.50 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375667 ES	0.10 - 0.20 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375583 ES	0.30 - 0.40 Soil/Solid (S) 28/10/2025 31/10/2025 251031-20 32375586 ES	
Component	LOD/Units	Method								19	38	28	19	24	19
Moisture Content Ratio (% of as received sample)	%	PM024								19	38	28	19	24	19
Soil Organic Matter (SOM)	<0.35 %	TM132								3.34 #	10.1 #	7.4 #	3.38 #	3.26 #	3.17 #
pH	1 pH Units	TM133								7.55 M	4.95 M	7.62 M	7.59 M	8.03 M	7.64 M
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.32	6.94	7.33	5.44	2.44	6.26							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	1.01	<0.6	<0.6	<0.6	<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP306-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 28/10/2025	0.10 - 0.20 Soil/Solid (S) 28/10/2025	0.20 - 0.30 Soil/Solid (S) 28/10/2025	0.50 - 0.60 Soil/Solid (S) 28/10/2025		
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			16	24	28	27		
Soil Organic Matter (SOM)	<0.35 %	TM132			0.965	4.84	7.21	4.78		
					#	#	#	#		
pH	1 pH Units	TM133			7.72	7.23	7.51	7.53		
					M	M	M	M		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			8.14	4.24	7.37	11		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20

Report Number: 783169

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Data Amendment

Sample No. : 32375681

Date of Amendment : 05/11/2025

Authorised: Colin Murtagh

Origin:

Sample Ref.	Reason	Test Name	Result Name	Units	Previous	Amended
GR03-SP306-C-S1	Analytical/Quality Issue	Sample description	Inclusion 2)	1	vegetation	glass



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20

Report Number: 783169

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310

Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32375562	32375595	32375628	32375592	32375598	32375601	32375622	32375625	32375631	32375659
	GR03-SP306-A	GR03-SP306-A	GR03-SP306-A	GR04-SP409-A	GR04-SP409-A	GR04-SP409-A	GR04-SP413-A	GR04-SP413-A	GR04-SP413-A	GR03-SP306-B
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.55	0.10 - 0.20	0.32	0.50 - 0.60	0.00 - 0.10
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	14-Nov-2025	07-Nov-2025	14-Nov-2025	14-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	14-Nov-2025
pH	04-Nov-2025	04-Nov-2025	05-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025	04-Nov-2025
Sample description	04-Nov-2025	04-Nov-2025	04-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	04-Nov-2025
Total Organic Carbon	13-Nov-2025	13-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32375675	32375677	32375604	32375607	32375610	32375634	32375637	32375640	32375643	32375613
	GR03-SP306-B	GR03-SP306-B	GR04-SP409-B	GR04-SP409-B	GR04-SP409-B	GR04-SP413-B	GR04-SP413-B	GR04-SP413-B	GR04-SP413-B	GR04-SP409-C
	ESALS	ES	ES	ESALS	ES	ES	ES	ES	WT	ES
	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	12-Nov-2025	12-Nov-2025	12-Nov-2025	14-Nov-2025	10-Nov-2025	14-Nov-2025	14-Nov-2025	12-Nov-2025		14-Nov-2025
PFAS Liquids (Full Suite)									06-Nov-2025	
pH	06-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025		11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025
Total Organic Carbon	13-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025		14-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32375616	32375619	32375565	32375679	32375681	32375683	32375568	32375571	32375648	32375651
	GR04-SP409-C	GR04-SP409-C	GR03-SP306-C-S1	GR03-SP306-C-S1	GR03-SP306-C-S1	GR03-SP306-C-S1	GR03-SP306-C-S2	GR03-SP306-C-S2	GR04-SP413-C-S1	GR04-SP413-C-S1
	ESALS	ES	ES	ESA1	ESA2	ES	ESA1	ESA2	ESA1	ESA2
	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.10 - 0.20	0.10 - 0.20	0.10 - 0.20	0.10 - 0.20
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	10-Nov-2025	12-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	10-Nov-2025	12-Nov-2025
pH	11-Nov-2025	11-Nov-2025	04-Nov-2025	11-Nov-2025	05-Nov-2025	05-Nov-2025	11-Nov-2025	04-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	04-Nov-2025	05-Nov-2025	04-Nov-2025	04-Nov-2025	05-Nov-2025	03-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025	13-Nov-2025	14-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32375653	32375655	32375657	32375661	32375575	32375577	32375580	32375663	32375665	32375667
	GR04-SP413-C-S1	GR04-SP413-C-S1	GR04-SP413-C-S2	GR04-SP413-C-S2	GR03-SP306-D	GR03-SP306-D	GR03-SP306-D	GR04-SP413-D	GR04-SP413-D	GR04-SP413-D
	ES	ESALS	ESA1	ESA2	ES	ES	ES	ES	ES	ES
	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	14-Nov-2025	14-Nov-2025	12-Nov-2025	10-Nov-2025	12-Nov-2025	12-Nov-2025
pH	06-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	04-Nov-2025	04-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	04-Nov-2025	03-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	14-Nov-2025	14-Nov-2025	13-Nov-2025	14-Nov-2025	13-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32375583	32375586	32375589	32375669	32375671	32375673
	GR03-SP306-E	GR03-SP306-E	GR03-SP306-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E
	ES	ES	ESALS	ES	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025
pH	04-Nov-2025	11-Nov-2025	04-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description	03-Nov-2025	05-Nov-2025	03-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-20
Client Ref.: UK-70100310Report Number: 783169
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3265	QC 3240	QC 3259	QC 3236	QC 3218	QC 3250
10:2 FTS (Raw)	TM440	85.66 53.10 : 140.00	99.1 53.10 : 140.00	96.48 53.10 : 140.00	100.6 53.10 : 140.00	76.33 53.10 : 140.00	71.27 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	109.6 53.56 : 141.19	103.98 53.56 : 141.19	73.75 53.56 : 141.19	84.46 53.56 : 141.19	83.3 53.56 : 141.19	85.6 53.56 : 141.19
3:3 FTCA (Raw)	TM440	98.16 50.54 : 133.25	96.88 50.54 : 133.25	84.4 50.54 : 133.25	88.73 50.54 : 133.25	87.46 50.54 : 133.25	72.45 50.54 : 133.25
4:2 FTS (Raw)	TM440	101.09 56.34 : 145.91	92.79 56.34 : 145.91	88.6 56.34 : 145.91	92.91 56.34 : 145.91	91.04 56.34 : 145.91	82.98 56.34 : 145.91
5:3 FTCA (Raw)	TM440	93.83 52.66 : 130.08	88.19 52.66 : 130.08	87.68 52.66 : 130.08	94.39 52.66 : 130.08	74.32 52.66 : 130.08	71.38 52.66 : 130.08
6:2 FTAB (Raw)	TM440	38.41 38.50 : 101.50	36.09 38.50 : 101.50	37.92 38.50 : 101.50	38.83 38.50 : 101.50	35.87 38.50 : 101.50	32.07 38.50 : 101.50
6:2 FTS (Raw)	TM440	86.66 54.79 : 144.46	91.31 54.79 : 144.46	93.0 54.79 : 144.46	100.81 54.79 : 144.46	69.98 54.79 : 144.46	76.28 54.79 : 144.46
7:3 FTCA (Raw)	TM440	88.04 48.60 : 128.14	102.39 48.60 : 128.14	75.5 48.60 : 128.14	75.81 48.60 : 128.14	83.35 48.60 : 128.14	77.06 48.60 : 128.14
8:2 diPAP (Raw)	TM440	102.53 56.03 : 147.72	112.93 56.03 : 147.72	100.73 56.03 : 147.72	110.29 56.03 : 147.72	94.0 56.03 : 147.72	100.09 56.03 : 147.72
8:2 FTS (Raw)	TM440	83.84 55.74 : 146.96	94.48 55.74 : 146.96	79.09 55.74 : 146.96	90.68 55.74 : 146.96	85.73 55.74 : 146.96	81.86 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	96.48 54.59 : 143.91	97.01 54.59 : 143.91	85.5 54.59 : 143.91	83.74 54.59 : 143.91	83.77 54.59 : 143.91	76.85 54.59 : 143.91
ADONA (Raw)	TM440	97.75 54.01 : 132.33	88.74 54.01 : 132.33	79.74 54.01 : 132.33	82.67 54.01 : 132.33	80.78 54.01 : 132.33	78.2 54.01 : 132.33
Branched PFOS (Raw)	TM440	100.9 54.09 : 142.61	99.92 54.09 : 142.61	89.77 54.09 : 142.61	86.25 54.09 : 142.61	80.23 54.09 : 142.61	83.02 54.09 : 142.61
EtFOSAA (Raw)	TM440	87.54 52.48 : 138.36	104.39 52.48 : 138.36	70.3 52.48 : 138.36	87.94 52.48 : 138.36	79.71 52.48 : 138.36	72.77 52.48 : 138.36
EtFOSE (Raw)	TM440	95.63 57.05 : 145.29	92.93 57.05 : 145.29	81.18 57.05 : 145.29	85.03 57.05 : 145.29	81.59 57.05 : 145.29	76.56 57.05 : 145.29
FBSA (Raw)	TM440	86.88 49.51 : 125.13	89.79 49.51 : 125.13	76.74 49.51 : 125.13	87.49 49.51 : 125.13	79.27 49.51 : 125.13	70.94 49.51 : 125.13
FHxSA (Raw)	TM440	91.75 50.38 : 132.82	87.67 50.38 : 132.82	71.66 50.38 : 132.82	81.51 50.38 : 132.82	80.43 50.38 : 132.82	74.12 50.38 : 132.82
HFPO-DA (Raw)	TM440	92.61 53.47 : 140.98	92.8 53.47 : 140.98	80.23 53.47 : 140.98	84.82 53.47 : 140.98	82.35 53.47 : 140.98	78.98 53.47 : 140.98
HFPO-TA (Raw)	TM440	102.94 54.77 : 144.39	99.66 54.77 : 144.39	91.27 54.77 : 144.39	98.15 54.77 : 144.39	80.31 54.77 : 144.39	77.41 54.77 : 144.39
L-PFOS (Raw)	TM440	100.9 54.09 : 142.61	99.92 54.09 : 142.61	89.77 54.09 : 142.61	86.25 54.09 : 142.61	80.23 54.09 : 142.61	83.02 54.09 : 142.61
MeFOSAA (Raw)	TM440	100.11 53.02 : 139.78	111.79 53.02 : 139.78	80.97 53.02 : 139.78	87.4 53.02 : 139.78	79.09 53.02 : 139.78	77.7 53.02 : 139.78
MeFOSE (Raw)	TM440	92.24 54.99 : 144.97	93.21 54.99 : 144.97	72.4 54.99 : 144.97	74.57 54.99 : 144.97	82.98 54.99 : 144.97	77.73 54.99 : 144.97
N-EtFOSA (Raw)	TM440	98.28 59.56 : 132.93	99.24 59.56 : 132.93	74.76 59.56 : 132.93	79.83 59.56 : 132.93	77.35 59.56 : 132.93	72.21 59.56 : 132.93
NFDHA (Raw)	TM440	91.97 57.35 : 151.20	93.78 57.35 : 151.20	83.38 57.35 : 151.20	89.68 57.35 : 151.20	80.18 57.35 : 151.20	73.53 57.35 : 151.20
N-MeFOSA (Raw)	TM440	98.43 59.19 : 133.01	98.55 59.19 : 133.01	73.8 59.19 : 133.01	77.3 59.19 : 133.01	78.55 59.19 : 133.01	74.67 59.19 : 133.01
PFBA (Raw)	TM440	93.29 52.69 : 138.91	93.13 52.69 : 138.91	85.13 52.69 : 138.91	85.36 52.69 : 138.91	83.5 52.69 : 138.91	79.78 52.69 : 138.91



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		QC 3265	QC 3240	QC 3259	QC 3236	QC 3218	QC 3250
PFBS (Raw)	TM440	93.79 53.31 : 140.54	91.36 53.31 : 140.54	76.57 53.31 : 140.54	84.49 53.31 : 140.54	86.38 53.31 : 140.54	78.52 53.31 : 140.54
PFDA (Raw)	TM440	90.96 53.39 : 140.76	93.46 53.39 : 140.76	79.54 53.39 : 140.76	81.86 53.39 : 140.76	91.99 53.39 : 140.76	80.76 53.39 : 140.76
PFDoA (Raw)	TM440	100.08 52.85 : 139.34	95.38 52.85 : 139.34	79.59 52.85 : 139.34	90.02 52.85 : 139.34	85.95 52.85 : 139.34	78.9 52.85 : 139.34
PFDoS (Raw)	TM440	100.93 55.29 : 145.76	100.78 55.29 : 145.76	75.13 55.29 : 145.76	73.91 55.29 : 145.76	73.85 55.29 : 145.76	72.79 55.29 : 145.76
PFDS (Raw)	TM440	104.17 52.94 : 139.56	101.86 52.94 : 139.56	77.72 52.94 : 139.56	92.17 52.94 : 139.56	92.13 52.94 : 139.56	84.21 52.94 : 139.56
PFecHS (Raw)	TM440	90.72 50.75 : 133.80	89.07 50.75 : 133.80	83.55 50.75 : 133.80	83.81 50.75 : 133.80	74.76 50.75 : 133.80	69.38 50.75 : 133.80
PFEESA (Raw)	TM440	85.33 50.87 : 134.12	84.19 50.87 : 134.12	86.69 50.87 : 134.12	84.97 50.87 : 134.12	80.48 50.87 : 134.12	67.31 50.87 : 134.12
PFHpA (Raw)	TM440	95.13 52.61 : 138.69	94.1 52.61 : 138.69	83.71 52.61 : 138.69	88.34 52.61 : 138.69	80.43 52.61 : 138.69	78.94 52.61 : 138.69
PFHpS (Raw)	TM440	98.09 55.29 : 145.76	96.18 55.29 : 145.76	85.9 55.29 : 145.76	85.8 55.29 : 145.76	72.49 55.29 : 145.76	76.87 55.29 : 145.76
PFHxA (Raw)	TM440	96.43 54.05 : 142.50	92.55 54.05 : 142.50	81.14 54.05 : 142.50	85.19 54.05 : 142.50	84.3 54.05 : 142.50	79.34 54.05 : 142.50
PFHxDA (Raw)	TM440	107.21 52.03 : 137.17	95.25 52.03 : 137.17	80.16 52.03 : 137.17	85.25 52.03 : 137.17	95.15 52.03 : 137.17	76.73 52.03 : 137.17
PFHxS (Raw)	TM440	91.12 53.56 : 141.19	89.65 53.56 : 141.19	84.54 53.56 : 141.19	83.74 53.56 : 141.19	74.22 53.56 : 141.19	72.23 53.56 : 141.19
PFMOBA (Raw)	TM440	90.65 52.73 : 139.02	88.4 52.73 : 139.02	75.58 52.73 : 139.02	85.64 52.73 : 139.02	87.56 52.73 : 139.02	76.33 52.73 : 139.02
PFMOPra (Raw)	TM440	94.4 52.57 : 138.58	94.82 52.57 : 138.58	82.6 52.57 : 138.58	85.4 52.57 : 138.58	98.64 52.57 : 138.58	72.69 52.57 : 138.58
PFNA (Raw)	TM440	86.95 52.94 : 139.56	86.61 52.94 : 139.56	91.98 52.94 : 139.56	90.68 52.94 : 139.56	87.96 52.94 : 139.56	80.94 52.94 : 139.56
PFNS (Raw)	TM440	92.38 54.38 : 143.37	96.87 54.38 : 143.37	86.54 54.38 : 143.37	83.97 54.38 : 143.37	85.02 54.38 : 143.37	78.14 54.38 : 143.37
PFOA (Raw)	TM440	94.6 53.80 : 141.85	92.5 53.80 : 141.85	79.6 53.80 : 141.85	87.8 53.80 : 141.85	83.75 53.80 : 141.85	82.29 53.80 : 141.85
PFODA (Raw)	TM440	72.57 56.03 : 147.72	73.62 56.03 : 147.72	76.27 56.03 : 147.72	83.87 56.03 : 147.72	75.17 56.03 : 147.72	71.46 56.03 : 147.72
PFOSA (Raw)	TM440	90.8 53.10 : 140.00	89.41 53.10 : 140.00	78.06 53.10 : 140.00	85.51 53.10 : 140.00	82.42 53.10 : 140.00	77.11 53.10 : 140.00
PFPA (Raw)	TM440	98.87 53.89 : 142.06	90.29 53.89 : 142.06	76.16 53.89 : 142.06	82.62 53.89 : 142.06	84.33 53.89 : 142.06	81.17 53.89 : 142.06
PFPeS (Raw)	TM440	82.32 54.30 : 143.15	89.91 54.30 : 143.15	88.49 54.30 : 143.15	84.46 54.30 : 143.15	82.1 54.30 : 143.15	71.4 54.30 : 143.15
PFTeA (Raw)	TM440	94.72 53.06 : 139.89	102.35 53.06 : 139.89	88.19 53.06 : 139.89	91.6 53.06 : 139.89	84.38 53.06 : 139.89	75.86 53.06 : 139.89
PFTrDA (Raw)	TM440	99.08 51.70 : 136.30	102.37 51.70 : 136.30	86.86 51.70 : 136.30	101.03 51.70 : 136.30	90.13 51.70 : 136.30	79.82 51.70 : 136.30
PFTrDS (Raw)	TM440	103.54 56.24 : 148.26	106.42 56.24 : 148.26	74.07 56.24 : 148.26	75.5 56.24 : 148.26	80.87 56.24 : 148.26	77.73 56.24 : 148.26
PFUnA (Raw)	TM440	97.92 53.35 : 140.65	89.93 53.35 : 140.65	79.98 53.35 : 140.65	86.45 53.35 : 140.65	85.64 53.35 : 140.65	83.29 53.35 : 140.65
PFUnDS (Raw)	TM440	106.45 53.60 : 141.30	97.77 53.60 : 141.30	77.74 53.60 : 141.30	89.06 53.60 : 141.30	69.7 53.60 : 141.30	71.66 53.60 : 141.30



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PFAS in soils

Component	Method Code	QC 3272
10:2 FTS (Raw)	TM440	75.79 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	80.51 53.56 : 141.19
3:3 FTCA (Raw)	TM440	74.84 50.54 : 133.25
4:2 FTS (Raw)	TM440	83.48 56.34 : 145.91
5:3 FTCA (Raw)	TM440	69.28 52.66 : 130.08
6:2 FTAB (Raw)	TM440	33.59 38.50 : 101.50
6:2 FTS (Raw)	TM440	73.99 54.79 : 144.46
7:3 FTCA (Raw)	TM440	74.66 48.60 : 128.14
8:2 diPAP (Raw)	TM440	85.18 56.03 : 147.72
8:2 FTS (Raw)	TM440	84.75 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	78.19 54.59 : 143.91
ADONA (Raw)	TM440	74.53 54.01 : 132.33
Branched PFOS (Raw)	TM440	77.21 54.09 : 142.61
EtFOSAA (Raw)	TM440	71.21 52.48 : 138.36
EtFOSE (Raw)	TM440	76.79 57.05 : 145.29
FBSA (Raw)	TM440	67.89 49.51 : 125.13
FHxSA (Raw)	TM440	73.08 50.38 : 132.82
HFPO-DA (Raw)	TM440	75.3 53.47 : 140.98
HFPO-TA (Raw)	TM440	81.23 54.77 : 144.39
L-PFOS (Raw)	TM440	77.21 54.09 : 142.61
MeFOSAA (Raw)	TM440	72.76 53.02 : 139.78
MeFOSE (Raw)	TM440	72.51 54.99 : 144.97
N-EtFOSA (Raw)	TM440	73.66 59.56 : 132.93
NFDHA (Raw)	TM440	74.04 57.35 : 151.20
N-MeFOSA (Raw)	TM440	75.97 59.19 : 133.01
PFBA (Raw)	TM440	77.37 52.69 : 138.91
PFBS (Raw)	TM440	70.55 53.31 : 140.54



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PFAS in soils

		QC 3272
PFDA (Raw)	TM440	79.07 53.39 : 140.76
PFDoA (Raw)	TM440	78.57 52.85 : 139.34
PFDoS (Raw)	TM440	79.77 55.29 : 145.76
PFDS (Raw)	TM440	79.06 52.94 : 139.56
PFecHS (Raw)	TM440	71.59 50.75 : 133.80
PFEESA (Raw)	TM440	70.81 50.87 : 134.12
PFHpA (Raw)	TM440	78.12 52.61 : 138.69
PFHpS (Raw)	TM440	77.74 55.29 : 145.76
PFHxA (Raw)	TM440	82.74 54.05 : 142.50
PFHxDA (Raw)	TM440	78.38 52.03 : 137.17
PFHxS (Raw)	TM440	70.68 53.56 : 141.19
PFMOBA (Raw)	TM440	75.73 52.73 : 139.02
PFMOPra (Raw)	TM440	73.48 52.57 : 138.58
PFNA (Raw)	TM440	79.6 52.94 : 139.56
PFNS (Raw)	TM440	78.29 54.38 : 143.37
PFOA (Raw)	TM440	78.67 53.80 : 141.85
PFODA (Raw)	TM440	72.17 56.03 : 147.72
PFOSA (Raw)	TM440	75.34 53.10 : 140.00
PFPA (Raw)	TM440	78.91 53.89 : 142.06
PFPeS (Raw)	TM440	72.84 54.30 : 143.15
PFTeA (Raw)	TM440	82.85 53.06 : 139.89
PFTrDA (Raw)	TM440	80.34 51.70 : 136.30
PFTrDS (Raw)	TM440	72.67 56.24 : 148.26
PFUnA (Raw)	TM440	78.32 53.35 : 140.65
PFUnDS (Raw)	TM440	73.79 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3214
11Cl-PF3OUdS (763051-92-9)	TM434	113.66 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	109.42 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	94.38 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	120.15 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	79.68 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	96.84 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	119.48 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	94.47 82.68 : 128.35
9Cl-PF3ONS (756426-58-1)	TM434	85.49 69.20 : 147.13
ADONA (919005-14-4)	TM434	91.65 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	91.68 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	121.17 67.47 : 136.89
FBSA (30334-69-1)	TM434	115.44 63.70 : 143.28
FHxSA (41997-13-1)	TM434	125.61 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	108.58 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	99.6 69.04 : 147.42
Linear PFOS (1763-23-1)	TM434	93.04 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	94.21 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	114.07 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	132.86 57.83 : 132.08
NFDHA (151772-58-6)	TM434	96.45 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	114.84 61.69 : 135.49
PFBA (375-22-4)	TM434	93.64 74.68 : 133.63
PFBS (375-73-5)	TM434	94.83 74.09 : 133.79
PFDA (335-76-2)	TM434	91.48 72.39 : 135.76
PFDaA (307-55-1)	TM434	93.86 58.06 : 148.21
PFDoS (79780-39-5)	TM434	111.47 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3214
PFDS (335-77-3)	TM434	100.51 58.61 : 140.44
PFEESA (113507-82-7)	TM434	92.32 62.25 : 138.08
PFHpA (375-85-9)	TM434	91.72 75.71 : 136.46
PFHpS (375-92-8)	TM434	92.67 76.13 : 132.38
PFHxA (307-24-4)	TM434	92.48 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	89.64 71.24 : 136.49
PFHxS (355-46-4)	TM434	96.83 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	90.02 76.41 : 130.26
PFMOPrA (377-73-1)	TM434	101.56 65.74 : 128.74
PFNA (375-95-1)	TM434	90.43 75.01 : 133.06
PFNS (68259-12-1)	TM434	90.68 74.74 : 129.26
PFOA (335-67-1)	TM434	91.66 74.76 : 136.11
PFODA (16517-11-6)	TM434	101.92 53.58 : 141.25
PFOSA (754-91-6)	TM434	95.71 76.54 : 135.04
PFPA (2706-90-3)	TM434	94.5 77.89 : 134.66
PFPeS (2706-91-4)	TM434	94.54 69.49 : 132.71
PFTeA (376-06-7)	TM434	96.13 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	84.09 67.04 : 136.04
PFUnA (2058-94-8)	TM434	94.3 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	110.94 71.45 : 127.25

pH

Component	Method Code	QC 3268	QC 3270	QC 3296	QC 3220	QC 3243	QC 3245
pH	TM133	99.48 95.29 : 105.24	99.3 95.29 : 105.24	99.8 95.29 : 105.24	99.17 95.29 : 105.24	101.16 95.29 : 105.24	99.87 95.29 : 105.24



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pH

Component	Method Code	QC 3243	QC 3247	QC 3253	QC 3255
pH	TM133	99.43 95.29 : 105.24	99.56 95.29 : 105.24	99.24 95.29 : 105.24	100.02 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3285	QC 3289	QC 3229	QC 3235	QC 3239	QC 3208
Total Organic Carbon	TM132	97.68 93.61 : 106.00	97.23 93.61 : 106.00	96.74 93.61 : 106.00	97.16 93.61 : 106.00	96.89 93.61 : 106.00	98.25 93.61 : 106.00

Component	Method Code	QC 3211	QC 3215	QC 3219
Total Organic Carbon	TM132	96.07 93.61 : 106.00	97.61 93.61 : 106.00	96.53 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
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Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	14 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251031-21
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	783170
Order Number:	UK-70100310

We received 39 samples on Friday October 31, 2025 and 39 of these samples were scheduled for analysis which was completed on Friday November 14, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32375687	GR04-SP412-A	ES	0.00 - 0.10	29/10/2025
32375711	GR04-SP412-A	ES	0.20 - 0.30	29/10/2025
32375736	GR04-SP412-A	ES	0.40 - 0.50	29/10/2025
32375691	GR04-SP434-A	WS	0.00 - 0.60	29/10/2025
32375694	GR04-SP434-A	ES	0.10 - 0.20	29/10/2025
32375696	GR04-SP434-A	ES	0.20 - 0.30	29/10/2025
32375698	GR04-SP434-A	ES	0.50 - 0.60	29/10/2025
32375713	GR04-SP435-A	ES	0.00 - 0.10	29/10/2025
32375715	GR04-SP435-A	ES	0.20 - 0.30	29/10/2025
32375717	GR04-SP435-A	ESALS	0.40 - 0.50	29/10/2025
32375738	GR04-SP436-A	ES	0.10 - 0.20	29/10/2025
32375740	GR04-SP436-A	ES	0.20 - 0.30	29/10/2025
32375742	GR04-SP436-A	ESALS	0.50 - 0.60	29/10/2025
32375759	GR04-SP412-B	WS	0.00 - 0.60	29/10/2025
32375762	GR04-SP412-B	ES	0.10 - 0.20	29/10/2025
32375764	GR04-SP412-B	ES	0.30 - 0.40	29/10/2025
32375766	GR04-SP412-B	ES	0.50 - 0.60	29/10/2025
32375700	GR04-SP434-B	ES	0.00 - 0.10	29/10/2025
32375719	GR04-SP435-B	ES	0.10 - 0.20	29/10/2025
32375721	GR04-SP435-B	W	0.10 - 0.20	29/10/2025
32375726	GR04-SP435-B	ES	0.30 - 0.40	29/10/2025
32375728	GR04-SP435-B	ES	0.50 - 0.60	29/10/2025
32375744	GR04-SP436-B	ES	0.00 - 0.10	29/10/2025
32375746	GR04-SP436-B	WS	0.00 - 0.50	29/10/2025
32375749	GR04-SP436-B	ES	0.20 - 0.30	29/10/2025
32375751	GR04-SP436-B	ES	0.40 - 0.50	29/10/2025
32375768	GR04-SP412-C	ES	0.00 - 0.10	29/10/2025
32375770	GR04-SP412-C	ESALS	0.30 - 0.40	29/10/2025
32375689	GR04-SP412-C	ES	0.40 - 0.50	29/10/2025
32375702	GR04-SP434-C	ES	0.10 - 0.20	29/10/2025
32375704	GR04-SP434-C	ESALS	0.30 - 0.40	29/10/2025
32375706	GR04-SP434-C	WT	0.30 - 0.40	29/10/2025
32375709	GR04-SP434-C	ES	0.50 - 0.60	29/10/2025
32375730	GR04-SP435-C	ES	0.00 - 0.10	29/10/2025
32375732	GR04-SP435-C	ES	0.30 - 0.40	29/10/2025
32375734	GR04-SP435-C	ES	0.40 - 0.50	29/10/2025
32375753	GR04-SP436-C	ES	0.10 - 0.20	29/10/2025
32375755	GR04-SP436-C	ES	0.30 - 0.40	29/10/2025
32375757	GR04-SP436-C	ES	0.50 - 0.60	29/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32375719	GR04-SP435-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32375700	GR04-SP434-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32375766	GR04-SP412-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32375764	GR04-SP412-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32375762	GR04-SP412-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32375759	GR04-SP412-B	WS	0.00 - 0.60	50ml digitube (ALE001)	PW						
	32375742	GR04-SP436-A	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32375740	GR04-SP436-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375738	GR04-SP436-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32375717	GR04-SP435-A	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32375715	GR04-SP435-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375713	GR04-SP435-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32375698	GR04-SP434-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32375696	GR04-SP434-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375694	GR04-SP434-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32375691	GR04-SP434-A	WS	0.00 - 0.60	50ml digitube (ALE001)	PW						
	32375736	GR04-SP412-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32375711	GR04-SP412-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32375687	GR04-SP412-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS in soils	All	NDPs: 0 Tests: 34										
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 5										
pH	All	NDPs: 0 Tests: 34										
Sample description	All	NDPs: 0 Tests: 28										
Total Organic Carbon	All	NDPs: 0 Tests: 34										

32375757	GR04-SPA36-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375755	GR04-SPA36-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375753	GR04-SPA36-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375734	GR04-SPA35-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375732	GR04-SPA35-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375730	GR04-SPA35-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375709	GR04-SPA34-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375706	GR04-SPA34-C	WT	0.30 - 0.40	50ml digitube (ALE001)	PW		X								
32375704	GR04-SPA34-C	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375702	GR04-SPA34-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375689	GR04-SPA12-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375770	GR04-SPA12-C	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375768	GR04-SPA12-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375751	GR04-SPA36-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375749	GR04-SPA36-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375746	GR04-SPA36-B	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X								
32375744	GR04-SPA36-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375728	GR04-SPA35-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375726	GR04-SPA35-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X				X
32375721	GR04-SPA35-B	W	0.10 - 0.20	50ml digitube (ALE001)	PW		X								



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32375687	GR04-SP412-A	0.00 - 0.10	Dark Brown	Silty Clay	Brick	Stones
32375711	GR04-SP412-A	0.20 - 0.30	Light Brown	Silty Clay	Brick	Stones
32375736	GR04-SP412-A	0.40 - 0.50	Light Brown	Silty Clay	Stones	Vegetation
32375694	GR04-SP434-A	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375696	GR04-SP434-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32375698	GR04-SP434-A	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32375713	GR04-SP435-A	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	Stones
32375715	GR04-SP435-A	0.20 - 0.30	Dark Brown	Sandy Loam	Vegetation	Stones
32375717	GR04-SP435-A	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32375738	GR04-SP436-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32375740	GR04-SP436-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32375742	GR04-SP436-A	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32375762	GR04-SP412-B	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32375764	GR04-SP412-B	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32375766	GR04-SP412-B	0.50 - 0.60	Light Brown	Sandy Silt Loam	Stones	Vegetation
32375700	GR04-SP434-B	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375719	GR04-SP435-B	0.10 - 0.20	Dark Brown	Sandy Loam	Vegetation	Stones
32375726	GR04-SP435-B	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Brick
32375728	GR04-SP435-B	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32375744	GR04-SP436-B	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32375749	GR04-SP436-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375751	GR04-SP436-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32375689	GR04-SP412-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32375768	GR04-SP412-C	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32375770	GR04-SP412-C	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32375702	GR04-SP434-C	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Brick	Stones
32375704	GR04-SP434-C	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32375709	GR04-SP434-C	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32375730	GR04-SP435-C	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32375732	GR04-SP435-C	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32375734	GR04-SP435-C	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Brick	Stones
32375753	GR04-SP436-C	0.10 - 0.20	Light Brown	Silty Clay	Brick	Vegetation
32375755	GR04-SP436-C	0.30 - 0.40	Light Brown	Silty Clay Loam	Vegetation	None
32375757	GR04-SP436-C	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP412-A	GR04-SP412-A	GR04-SP412-A	GR04-SP434-A	GR04-SP434-A	GR04-SP434-A
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6.2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP412-A	GR04-SP412-A	GR04-SP412-A	GR04-SP434-A	GR04-SP434-A	GR04-SP434-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
* Subcontracted - refer to subcontractor report for accreditation status.					32375687	32375711	32375736	32375691	32375694	32375696
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WS	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	30	20	18			24	21	
Soil Organic Matter (SOM)	<0.35 %	TM132	5.53	2.09	1.28			6.84	5.43	
pH	1 pH Units	TM133	6.5	6.25	7.18			6.91	8.02	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP412-A	GR04-SP412-A	GR04-SP412-A	GR04-SP434-A	GR04-SP434-A	GR04-SP434-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30
m mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfiltTotal / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
* Subcontracted - refer to subcontractor report for accreditation status.				32375687	32375711	32375736	32375691	32375694	32375696
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	ES	ES	WS	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		1.71	1.95	1.05		2.28	1.96
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP434-A	GR04-SP435-A	GR04-SP435-A	GR04-SP435-A	GR04-SP436-A	GR04-SP436-A						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Soil/Solid (S) 29/10/2025 . 31/10/2025 251031-21 32375698 ES								0.00 - 0.10 Soil/Solid (S) 29/10/2025 . 31/10/2025 251031-21 32375713 ES	0.20 - 0.30 Soil/Solid (S) 29/10/2025 . 31/10/2025 251031-21 32375715 ES	0.40 - 0.50 Soil/Solid (S) 29/10/2025 . 31/10/2025 251031-21 32375717 ESALS	0.10 - 0.20 Soil/Solid (S) 29/10/2025 . 31/10/2025 251031-21 32375738 ES	0.20 - 0.30 Soil/Solid (S) 29/10/2025 . 31/10/2025 251031-21 32375740 ES	
Component	LOD/Units	Method								18	21	17	16	23	20
Moisture Content Ratio (% of as received sample)	%	PM024								18	21	17	16	23	20
Soil Organic Matter (SOM)	<0.35 %	TM132								0.748 #	7.88 #	4 #	4.83 #	3.33 #	2.4 #
pH	1 pH Units	TM133								7.71 M	7.18 M	7.41 M	7.35 M	6.87 M	7.01 M
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	2.14	1.16	0.934	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.04	5.07	3.13	3.73	2.65	2.19							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	1.19	<0.6	<0.6	<0.6	<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP436-A	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP434-B
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt Total / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
* Subcontracted - refer to subcontractor report for accreditation status.				32375742	32375759	32375762	32375764	32375766	32375700
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ESALS	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434			<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP436-A	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP434-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Soil/Solid (S) 29/10/2025	0.00 - 0.60 Process Water (PR) 29/10/2025	0.10 - 0.20 Soil/Solid (S) 29/10/2025	0.30 - 0.40 Soil/Solid (S) 29/10/2025	0.50 - 0.60 Soil/Solid (S) 29/10/2025	0.00 - 0.10 Soil/Solid (S) 29/10/2025	0.00 - 0.10 Soil/Solid (S) 29/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								
PFDS (335-77-3)	<0.002 µg/l	TM434								
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								
PFTeA (376-06-7)	<0.001 µg/l	TM434								
PFOSA (754-91-6)	<0.002 µg/l	TM434								
PFDoS (79780-39-5)	<0.002 µg/l	TM434								
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								
PFODA (16517-11-6)	<0.001 µg/l	TM434								
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								
Total PFOS	<0.00065 µg/l	TM434								
Total PFAS DWI 47	<0.09 µg/l	TM434								
PFecHS (646-83-3)	<0.001 µg/l	TM434								
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								
Moisture Content Ratio (% of as received sample)	%	PM024	16			26	18	17	23	
Soil Organic Matter (SOM)	<0.35 %	TM132	0.771	#		4.59	1.68	1.09	6.76	#
pH	1 pH Units	TM133	7.14	M		5.86	6.46	6.72	7.7	M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8			<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8			<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1			<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP436-A	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP434-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 29/10/2025	0.00 - 0.60 Process Water (PR) 29/10/2025	0.10 - 0.20 Soil/Solid (S) 29/10/2025	0.30 - 0.40 Soil/Solid (S) 29/10/2025	0.50 - 0.60 Soil/Solid (S) 29/10/2025	0.00 - 0.10 Soil/Solid (S) 29/10/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					31/10/2025 251031-21 32375742 ESALS	31/10/2025 251031-21 32375759 WS	31/10/2025 251031-21 32375762 ES	31/10/2025 251031-21 32375764 ES	31/10/2025 251031-21 32375766 ES	31/10/2025 251031-21 32375700 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.15		2.31	3.18	2.41	1.51
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	0.911
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP436-B	GR04-SP436-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
* Subcontracted - refer to subcontractor report for accreditation status.					32375719	32375721	32375726	32375728	32375744	32375746
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	W	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				<0.002
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				<0.001
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				<0.005
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				<0.001
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				<0.001
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				<0.001
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				<0.003
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				<0.001
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				<0.001
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				<0.001
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				<0.001
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				<0.001
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				<0.005
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				<0.001
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				<0.001
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				<0.001
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				<0.00065
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				<0.00065
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
* Subcontracted - refer to subcontractor report for accreditation status.					32375719	32375721	32375726	32375728	32375744	32375746
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	W	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				<0.01
Total PFOS	<0.00065 µg/l	TM434				<0.00065				<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			24		17	14	22	
Soil Organic Matter (SOM)	<0.35 %	TM132			8.95		2.81	1.03	3.98	
pH	1 pH Units	TM133			6.97		7.34	7.63	7.71	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.15		0.809	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP435-B	GR04-SP436-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20 Soil/Solid (S) 29/10/2025	0.10 - 0.20 Process Water (PR) 29/10/2025	0.30 - 0.40 Soil/Solid (S) 29/10/2025	0.50 - 0.60 Soil/Solid (S) 29/10/2025	0.00 - 0.10 Soil/Solid (S) 29/10/2025	0.00 - 0.50 Process Water (PR) 29/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*5@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		3.84		2.47	0.729	1.59	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		0.962		<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP436-B	GR04-SP436-B	GR04-SP412-C	GR04-SP412-C	GR04-SP412-C	GR04-SP434-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
Subcontracted - refer to subcontractor report for accreditation status.					32375749	32375751	32375768	32375770	32375689	32375702
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ESALS	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			21	27	31	19	17	24
Soil Organic Matter (SOM)	<0.35 %	TM132			3.69	3.62	5.34	1.98	1.01	5.28
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.12	7.55	6.06	6.46	6.61	8.21
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	1.61
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.7	4.81	3.1	4.51	4.11	3.47
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	1.04
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP434-C	GR04-SP434-C	GR04-SP434-C	GR04-SP435-C	GR04-SP435-C	GR04-SP435-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt	Dissolved / filtered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfilt	Total / unfiltered sample.				251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
* Subcontracted - refer to subcontractor report for accreditation status.					32375704	32375706	32375709	32375730	32375732	32375734
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	WT	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP434-C	GR04-SP434-C	GR04-SP434-C	GR04-SP435-C	GR04-SP435-C	GR04-SP435-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
* Subcontracted - refer to subcontractor report for accreditation status.					251031-21	251031-21	251031-21	251031-21	251031-21	251031-21
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					32375704	32375706	32375709	32375730	32375732	32375734
*** 6:2 FTAB (see appendix)					ESALS	WT	ES	ES	ES	ES
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	22				19	18	18	14
Soil Organic Matter (SOM)	<0.35 %	TM132	3.64	#			1.26	4.88	4.15	2.03
pH	1 pH Units	TM133	8.32	M			8.16	6.81	8.1	7.97
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8				<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	0.721	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8				<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1				<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5				<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP434-C	GR04-SP434-C	GR04-SP434-C	GR04-SP435-C	GR04-SP435-C	GR04-SP435-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40 Soil/Solid (S) 29/10/2025	0.30 - 0.40 Process Water (PR) 29/10/2025	0.50 - 0.60 Soil/Solid (S) 29/10/2025	0.00 - 0.10 Soil/Solid (S) 29/10/2025	0.30 - 0.40 Soil/Solid (S) 29/10/2025	0.40 - 0.50 Soil/Solid (S) 29/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		0.778		<0.5	2.51	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		2.34		<0.5	3.05	2.6	0.668
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	2.22	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6		<0.6	1.09	0.891	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.					
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR04-SP436-C	GR04-SP436-C	GR04-SP436-C		
M mCERTS accredited.								
aq Aqueous / settled sample.								
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6.2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	24	20	18			
Soil Organic Matter (SOM)	<0.35 %	TM132	4.48	1.97	0.84			
pH	1 pH Units	TM133	6.38	7.04	7.35			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	1.29	2.47			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.59	2.21	1.74			
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	1.34	2.27			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21

Report Number: 783170

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32375687	32375711	32375736	32375691	32375694	32375696	32375698	32375713	32375715	32375717
	GR04-SP412-A	GR04-SP412-A	GR04-SP412-A	GR04-SP434-A	GR04-SP434-A	GR04-SP434-A	GR04-SP434-A	GR04-SP435-A	GR04-SP435-A	GR04-SP435-A
	ES	ES	ES	WS	ES	ES	ES	ES	ES	ESALS
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	14-Nov-2025	12-Nov-2025	14-Nov-2025		12-Nov-2025	12-Nov-2025	14-Nov-2025	12-Nov-2025	12-Nov-2025	14-Nov-2025
PFAS Liquids (Full Suite)				11-Nov-2025						
pH	04-Nov-2025	04-Nov-2025	04-Nov-2025		04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025
Sample description	01-Nov-2025	01-Nov-2025	01-Nov-2025		01-Nov-2025	01-Nov-2025	01-Nov-2025	01-Nov-2025	01-Nov-2025	01-Nov-2025
Total Organic Carbon	14-Nov-2025	13-Nov-2025	14-Nov-2025		13-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	14-Nov-2025	14-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32375738	32375740	32375742	32375759	32375762	32375764	32375766	32375700	32375719	32375721
	GR04-SP436-A	GR04-SP436-A	GR04-SP436-A	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP412-B	GR04-SP434-B	GR04-SP435-B	GR04-SP435-B
	ES	ES	ESALS	WS	ES	ES	ES	ES	ES	W
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.10 - 0.20	0.10 - 0.20
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	12-Nov-2025	12-Nov-2025	12-Nov-2025		14-Nov-2025	14-Nov-2025	14-Nov-2025	12-Nov-2025	12-Nov-2025	
PFAS Liquids (Full Suite)				11-Nov-2025						11-Nov-2025
pH	04-Nov-2025	06-Nov-2025	11-Nov-2025		04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	
Sample description	31-Oct-2025	05-Nov-2025	05-Nov-2025		03-Nov-2025	03-Nov-2025	03-Nov-2025	01-Nov-2025	01-Nov-2025	
Total Organic Carbon	14-Nov-2025	13-Nov-2025	14-Nov-2025		13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	

Lab Sample No(s) Customer Sample Ref.	32375726	32375728	32375744	32375746	32375749	32375751	32375689	32375768	32375770	32375702
	GR04-SP435-B	GR04-SP435-B	GR04-SP436-B	GR04-SP436-B	GR04-SP436-B	GR04-SP436-B	GR04-SP412-C	GR04-SP412-C	GR04-SP412-C	GR04-SP434-C
	ES	ES	ES	WS	ES	ES	ES	ES	ESALS	ES
	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.10 - 0.20
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	12-Nov-2025	12-Nov-2025	12-Nov-2025		12-Nov-2025	12-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	12-Nov-2025
PFAS Liquids (Full Suite)				11-Nov-2025						
pH	04-Nov-2025	04-Nov-2025	11-Nov-2025		04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025
Sample description	01-Nov-2025	01-Nov-2025	05-Nov-2025		31-Oct-2025	31-Oct-2025	03-Nov-2025	03-Nov-2025	03-Nov-2025	01-Nov-2025
Total Organic Carbon	14-Nov-2025	14-Nov-2025	13-Nov-2025		14-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32375704	32375706	32375709	32375730	32375732	32375734	32375753	32375755	32375757
	GR04-SP434-C	GR04-SP434-C	GR04-SP434-C	GR04-SP435-C	GR04-SP435-C	GR04-SP435-C	GR04-SP436-C	GR04-SP436-C	GR04-SP436-C
	ESALS	WT	ES	ES	ES	ES	ES	ES	ES
	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
Depth Type	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	12-Nov-2025		12-Nov-2025	12-Nov-2025	14-Nov-2025	14-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
PFAS Liquids (Full Suite)		11-Nov-2025							
pH	04-Nov-2025		04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025	04-Nov-2025
Sample description	01-Nov-2025		01-Nov-2025	01-Nov-2025	01-Nov-2025	01-Nov-2025	01-Nov-2025	31-Oct-2025	31-Oct-2025
Total Organic Carbon	14-Nov-2025		14-Nov-2025	13-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025



CERTIFICATE OF ANALYSIS

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Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3235	QC 3236	QC 3218	QC 3272
10:2 FTS (Raw)	TM440	92.69 53.10 : 140.00	100.6 53.10 : 140.00	76.33 53.10 : 140.00	75.79 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	72.59 53.56 : 141.19	84.46 53.56 : 141.19	83.3 53.56 : 141.19	80.51 53.56 : 141.19
3:3 FTCA (Raw)	TM440	86.71 50.54 : 133.25	88.73 50.54 : 133.25	87.46 50.54 : 133.25	74.84 50.54 : 133.25
4:2 FTS (Raw)	TM440	96.38 56.34 : 145.91	92.91 56.34 : 145.91	91.04 56.34 : 145.91	83.48 56.34 : 145.91
5:3 FTCA (Raw)	TM440	85.87 52.66 : 130.08	94.39 52.66 : 130.08	74.32 52.66 : 130.08	69.28 52.66 : 130.08
6:2 FTAB (Raw)	TM440	26.3 38.50 : 101.50	38.83 38.50 : 101.50	35.87 38.50 : 101.50	33.59 38.50 : 101.50
6:2 FTS (Raw)	TM440	126.96 54.79 : 144.46	100.81 54.79 : 144.46	69.98 54.79 : 144.46	73.99 54.79 : 144.46
7:3 FTCA (Raw)	TM440	84.81 48.60 : 128.14	75.81 48.60 : 128.14	83.35 48.60 : 128.14	74.66 48.60 : 128.14
8:2 diPAP (Raw)	TM440	111.38 56.03 : 147.72	110.29 56.03 : 147.72	94.0 56.03 : 147.72	85.18 56.03 : 147.72
8:2 FTS (Raw)	TM440	122.51 55.74 : 146.96	90.68 55.74 : 146.96	85.73 55.74 : 146.96	84.75 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	89.28 54.59 : 143.91	83.74 54.59 : 143.91	83.77 54.59 : 143.91	78.19 54.59 : 143.91
ADONA (Raw)	TM440	109.72 54.01 : 132.33	82.67 54.01 : 132.33	80.78 54.01 : 132.33	74.53 54.01 : 132.33
Branched PFOS (Raw)	TM440	96.48 54.09 : 142.61	86.25 54.09 : 142.61	80.23 54.09 : 142.61	77.21 54.09 : 142.61
EtFOSAA (Raw)	TM440	96.72 52.48 : 138.36	87.94 52.48 : 138.36	79.71 52.48 : 138.36	71.21 52.48 : 138.36
EtFOSE (Raw)	TM440	97.88 57.05 : 145.29	85.03 57.05 : 145.29	81.59 57.05 : 145.29	76.79 57.05 : 145.29
FBSA (Raw)	TM440	101.32 49.51 : 125.13	87.49 49.51 : 125.13	79.27 49.51 : 125.13	67.89 49.51 : 125.13
FHxSA (Raw)	TM440	99.59 50.38 : 132.82	81.51 50.38 : 132.82	80.43 50.38 : 132.82	73.08 50.38 : 132.82
HFPO-DA (Raw)	TM440	97.73 53.47 : 140.98	84.82 53.47 : 140.98	82.35 53.47 : 140.98	75.3 53.47 : 140.98
HFPO-TA (Raw)	TM440	111.41 54.77 : 144.39	98.15 54.77 : 144.39	80.31 54.77 : 144.39	81.23 54.77 : 144.39
L-PFOS (Raw)	TM440	96.48 54.09 : 142.61	86.25 54.09 : 142.61	80.23 54.09 : 142.61	77.21 54.09 : 142.61
MeFOSAA (Raw)	TM440	95.36 53.02 : 139.78	87.4 53.02 : 139.78	79.09 53.02 : 139.78	72.76 53.02 : 139.78
MeFOSE (Raw)	TM440	89.43 54.99 : 144.97	74.57 54.99 : 144.97	82.98 54.99 : 144.97	72.51 54.99 : 144.97
N-EtFOSA (Raw)	TM440	85.69 59.56 : 132.93	79.83 59.56 : 132.93	77.35 59.56 : 132.93	73.66 59.56 : 132.93
NFDHA (Raw)	TM440	86.26 57.35 : 151.20	89.68 57.35 : 151.20	80.18 57.35 : 151.20	74.04 57.35 : 151.20
N-MeFOSA (Raw)	TM440	90.64 59.19 : 133.01	77.3 59.19 : 133.01	78.55 59.19 : 133.01	75.97 59.19 : 133.01
PFBA (Raw)	TM440	96.97 52.69 : 138.91	85.36 52.69 : 138.91	83.5 52.69 : 138.91	77.37 52.69 : 138.91



CERTIFICATE OF ANALYSIS

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SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

		QC 3235	QC 3236	QC 3218	QC 3272
PFBS (Raw)	TM440	86.3 53.31 : 140.54	84.49 53.31 : 140.54	86.38 53.31 : 140.54	70.55 53.31 : 140.54
PFDA (Raw)	TM440	94.55 53.39 : 140.76	81.86 53.39 : 140.76	91.99 53.39 : 140.76	79.07 53.39 : 140.76
PFDoA (Raw)	TM440	101.82 52.85 : 139.34	90.02 52.85 : 139.34	85.95 52.85 : 139.34	78.57 52.85 : 139.34
PFDoS (Raw)	TM440	80.46 55.29 : 145.76	73.91 55.29 : 145.76	73.85 55.29 : 145.76	79.77 55.29 : 145.76
PFDS (Raw)	TM440	79.99 52.94 : 139.56	92.17 52.94 : 139.56	92.13 52.94 : 139.56	79.06 52.94 : 139.56
PFecHS (Raw)	TM440	100.79 50.75 : 133.80	83.81 50.75 : 133.80	74.76 50.75 : 133.80	71.59 50.75 : 133.80
PFEESA (Raw)	TM440	65.66 50.87 : 134.12	84.97 50.87 : 134.12	80.48 50.87 : 134.12	70.81 50.87 : 134.12
PFHpA (Raw)	TM440	108.42 52.61 : 138.69	88.34 52.61 : 138.69	80.43 52.61 : 138.69	78.12 52.61 : 138.69
PFHpS (Raw)	TM440	90.34 55.29 : 145.76	85.8 55.29 : 145.76	72.49 55.29 : 145.76	77.74 55.29 : 145.76
PFHxA (Raw)	TM440	102.6 54.05 : 142.50	85.19 54.05 : 142.50	84.3 54.05 : 142.50	82.74 54.05 : 142.50
PFHxDA (Raw)	TM440	95.07 52.03 : 137.17	85.25 52.03 : 137.17	95.15 52.03 : 137.17	78.38 52.03 : 137.17
PFHxS (Raw)	TM440	101.98 53.56 : 141.19	83.74 53.56 : 141.19	74.22 53.56 : 141.19	70.68 53.56 : 141.19
PFMOBA (Raw)	TM440	106.37 52.73 : 139.02	85.64 52.73 : 139.02	87.56 52.73 : 139.02	75.73 52.73 : 139.02
PFMOPra (Raw)	TM440	109.41 52.57 : 138.58	85.4 52.57 : 138.58	98.64 52.57 : 138.58	73.48 52.57 : 138.58
PFNA (Raw)	TM440	102.7 52.94 : 139.56	90.68 52.94 : 139.56	87.96 52.94 : 139.56	79.6 52.94 : 139.56
PFNS (Raw)	TM440	90.84 54.38 : 143.37	83.97 54.38 : 143.37	85.02 54.38 : 143.37	78.29 54.38 : 143.37
PFOA (Raw)	TM440	104.59 53.80 : 141.85	87.8 53.80 : 141.85	83.75 53.80 : 141.85	78.67 53.80 : 141.85
PFODA (Raw)	TM440	73.57 56.03 : 147.72	83.87 56.03 : 147.72	75.17 56.03 : 147.72	72.17 56.03 : 147.72
PFOSA (Raw)	TM440	110.03 53.10 : 140.00	85.51 53.10 : 140.00	82.42 53.10 : 140.00	75.34 53.10 : 140.00
PFFPA (Raw)	TM440	91.38 53.89 : 142.06	82.62 53.89 : 142.06	84.33 53.89 : 142.06	78.91 53.89 : 142.06
PFPeS (Raw)	TM440	75.67 54.30 : 143.15	84.46 54.30 : 143.15	82.1 54.30 : 143.15	72.84 54.30 : 143.15
PFTeA (Raw)	TM440	107.03 53.06 : 139.89	91.6 53.06 : 139.89	84.38 53.06 : 139.89	82.85 53.06 : 139.89
PFTrDA (Raw)	TM440	112.3 51.70 : 136.30	101.03 51.70 : 136.30	90.13 51.70 : 136.30	80.34 51.70 : 136.30
PFTrDS (Raw)	TM440	78.11 56.24 : 148.26	75.5 56.24 : 148.26	80.87 56.24 : 148.26	72.67 56.24 : 148.26
PFUnA (Raw)	TM440	105.5 53.35 : 140.65	86.45 53.35 : 140.65	85.64 53.35 : 140.65	78.32 53.35 : 140.65
PFUnDS (Raw)	TM440	69.24 53.60 : 141.30	89.06 53.60 : 141.30	69.7 53.60 : 141.30	73.79 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

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SDG: 251031-21
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Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3262
11CI-PF3OUdS (763051-92-9)	TM434	126.2 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	146.62 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	115.91 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	123.33 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	111.5 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	115.12 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	155.6 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	109.27 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	110.13 71.98 : 136.03
ADONA (919005-14-4)	TM434	119.32 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	106.5 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	184.09 67.92 : 135.38
FBSA (30334-69-1)	TM434	135.98 58.08 : 137.20
FHxSA (41997-13-1)	TM434	132.57 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	115.12 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	108.07 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	127.93 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	107.21 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	167.61 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	225.26 59.26 : 122.86
NFDHA (151772-58-6)	TM434	105.12 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	218.82 62.71 : 118.96
PFBA (375-22-4)	TM434	116.14 67.84 : 130.39
PFBS (375-73-5)	TM434	121.25 90.25 : 126.25
PFDA (335-76-2)	TM434	115.16 68.94 : 132.99
PFDaA (307-55-1)	TM434	109.74 66.19 : 135.04
PFDoS (79780-39-5)	TM434	121.77 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3262
PFDS (335-77-3)	TM434	118.29 64.84 : 138.49
PFEESA (113507-82-7)	TM434	120.65 67.24 : 129.19
PFHpA (375-85-9)	TM434	114.73 72.89 : 141.36
PFHpS (375-92-8)	TM434	118.14 72.19 : 155.36
PFHxA (307-24-4)	TM434	99.38 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	116.37 89.96 : 128.14
PFHxS (355-46-4)	TM434	118.56 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	130.81 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	136.33 80.40 : 136.73
PFNA (375-95-1)	TM434	113.86 68.61 : 128.99
PFNS (68259-12-1)	TM434	113.55 70.70 : 130.93
PFOA (335-67-1)	TM434	120.51 74.09 : 143.61
PFODA (16517-11-6)	TM434	170.26 68.70 : 175.88
PFOSA (754-91-6)	TM434	116.42 67.59 : 130.51
PFPA (2706-90-3)	TM434	128.46 74.20 : 140.58
PFPeS (2706-91-4)	TM434	117.34 76.19 : 137.91
PFTeA (376-06-7)	TM434	118.18 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	113.78 71.98 : 130.25
PFUnA (2058-94-8)	TM434	112.8 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	111.6 85.84 : 139.76

pH

Component	Method Code	QC 3246	QC 3252	QC 3268	QC 3270	QC 3243	QC 3245
pH	TM133	98.43 95.29 : 105.24	99.06 95.29 : 105.24	99.48 95.29 : 105.24	99.3 95.29 : 105.24	101.16 95.29 : 105.24	99.82 95.29 : 105.24

Total Organic Carbon



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Validated

SDG: 251031-21
Client Ref.: UK-70100310

Report Number: 783170
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3285	QC 3289	QC 3229	QC 3235	QC 3239	QC 3208
Total Organic Carbon	TM132	97.68 93.61 : 106.00	97.23 93.61 : 106.00	96.74 93.61 : 106.00	97.16 93.61 : 106.00	96.89 93.61 : 106.00	98.25 93.61 : 106.00

Component	Method Code	QC 3211	QC 3219
Total Organic Carbon	TM132	96.07 93.61 : 106.00	96.53 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251031-21
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Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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Deeside
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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	17 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251101-67
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	783298
Order Number:	UK-70100310

We received 39 samples on Saturday November 01, 2025 and 39 of these samples were scheduled for analysis which was completed on Monday November 17, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32386390	GR03-SP311-A	ES	0.00 - 0.10	30/10/2025
32386422	GR03-SP311-A	ESALS	0.30 - 0.40	30/10/2025
32386451	GR03-SP311-A	WT	0.40 - 0.50	30/10/2025
32386425	GR03-SP313-A	ES	0.00 - 0.10	30/10/2025
32386427	GR03-SP313-A	ES	0.20 - 0.30	30/10/2025
32386429	GR03-SP313-A	ES	0.40 - 0.50	30/10/2025
32386484	GR03-SP311-B	ES	0.10 - 0.20	30/10/2025
32386486	GR03-SP311-B	ES	0.20 - 0.30	30/10/2025
32386488	GR03-SP311-B	ES	0.50 - 0.58	30/10/2025
32386431	GR03-SP313-B	ESALS	0.10 - 0.20	30/10/2025
32386433	GR03-SP313-B	ES	0.30 - 0.40	30/10/2025
32386435	GR03-SP313-B	ES	0.50 - 0.60	30/10/2025
32386490	GR03-SP311-C-S1	ESA1	0.00 - 0.10	30/10/2025
32386492	GR03-SP311-C-S1	ESA2	0.00 - 0.10	30/10/2025
32386494	GR03-SP311-C-S1	ES	0.20 - 0.30	30/10/2025
32386393	GR03-SP311-C-S1	ES	0.40 - 0.50	30/10/2025
32386395	GR03-SP311-C-S2	ESA1	0.00 - 0.10	30/10/2025
32386397	GR03-SP311-C-S2	ESA2	0.00 - 0.10	30/10/2025
32386437	GR03-SP313-C-S1	ESA1	0.00 - 0.10	30/10/2025
32386439	GR03-SP313-C-S1	ESA2	0.00 - 0.10	30/10/2025
32386441	GR03-SP313-C-S1	WS	0.00 - 0.50	30/10/2025
32386447	GR03-SP313-C-S1	ES	0.30 - 0.40	30/10/2025
32386457	GR03-SP313-C-S1	ES	0.40 - 0.50	30/10/2025
32386460	GR03-SP313-C-S2	ESA1	0.00 - 0.10	30/10/2025
32386462	GR03-SP313-C-S2	ESA2	0.00 - 0.10	30/10/2025
32386399	GR03-SP311-D	WS	0.00 - 0.60	30/10/2025
32386403	GR03-SP311-D	ES	0.10 - 0.20	30/10/2025
32386408	GR03-SP311-D	ES	0.30 - 0.40	30/10/2025
32386411	GR03-SP311-D	ES	0.50 - 0.60	30/10/2025
32386464	GR03-SP313-D	ES	0.10 - 0.20	30/10/2025
32386466	GR03-SP313-D	ES	0.20 - 0.30	30/10/2025
32386469	GR03-SP313-D	ES	0.50 - 0.60	30/10/2025
32386414	GR03-SP311-E	ES	0.00 - 0.10	30/10/2025
32386416	GR03-SP311-E	ES	0.30 - 0.40	30/10/2025
32386419	GR03-SP311-E	ESALS	0.40 - 0.50	30/10/2025
32386471	GR03-SP313-E	ES	0.10 - 0.20	30/10/2025
32386474	GR03-SP313-E	WT	0.10 - 0.20	30/10/2025
32386478	GR03-SP313-E	ES	0.30 - 0.40	30/10/2025
32386481	GR03-SP313-E	ESALS	0.50 - 0.60	30/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32386437	GR03-SP313-C-S1	ESAI	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32386397	GR03-SP311-C-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32386395	GR03-SP311-C-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32386393	GR03-SP311-C-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32386494	GR03-SP311-C-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32386492	GR03-SP311-C-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32386490	GR03-SP311-C-S1	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32386435	GR03-SP313-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32386433	GR03-SP313-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32386431	GR03-SP313-B	ESALS	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32386488	GR03-SP311-B	ES	0.50 - 0.58	1kg TUB with Handle (ALE260)	S						
	32386486	GR03-SP311-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32386484	GR03-SP311-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32386429	GR03-SP313-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32386427	GR03-SP313-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32386425	GR03-SP313-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32386451	GR03-SP311-A	WT	0.40 - 0.50	50ml digtube (ALE001)	PW						
	32386422	GR03-SP311-A	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32386390	GR03-SP311-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS in soils	All	NDPs: 0 Tests: 35										
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 4										
pH	All	NDPs: 0 Tests: 35										
Sample description	All	NDPs: 0 Tests: 35										
Total Organic Carbon	All	NDPs: 0 Tests: 35										

32386481	GR03-SP313-E	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386478	GR03-SP313-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X	X
32386474	GR03-SP313-E	WT	0.10 - 0.20	50ml digitube (ALE001)	PW		X					
32386471	GR03-SP313-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386419	GR03-SP311-E	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386416	GR03-SP311-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386414	GR03-SP311-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386469	GR03-SP313-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386466	GR03-SP313-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386464	GR03-SP313-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386411	GR03-SP311-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386408	GR03-SP311-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386403	GR03-SP311-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386399	GR03-SP311-D	WS	0.00 - 0.60	50ml digitube (ALE001)	PW		X					
32386462	GR03-SP313-C-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386460	GR03-SP313-C-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386457	GR03-SP313-C-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386447	GR03-SP313-C-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32386441	GR03-SP313-C-S1	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X					
32386439	GR03-SP313-C-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32386390	GR03-SP311-A	0.00 - 0.10	Black	Sandy Loam	Stones	Vegetation
32386422	GR03-SP311-A	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	None
32386425	GR03-SP313-A	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Vegetation	None
32386427	GR03-SP313-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32386429	GR03-SP313-A	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32386484	GR03-SP311-B	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32386486	GR03-SP311-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32386488	GR03-SP311-B	0.50 - 0.58	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32386431	GR03-SP313-B	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32386433	GR03-SP313-B	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32386435	GR03-SP313-B	0.50 - 0.60	Dark Brown	Silt Loam	Stones	None
32386393	GR03-SP311-C-S1	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32386490	GR03-SP311-C-S1	0.00 - 0.10	Black	Loamy Sand	Stones	Vegetation
32386492	GR03-SP311-C-S1	0.00 - 0.10	Black	Sandy Clay Loam	Stones	Vegetation
32386494	GR03-SP311-C-S1	0.20 - 0.30	Grey	Silty Clay Loam	Vegetation	Stones
32386395	GR03-SP311-C-S2	0.00 - 0.10	Black	Sandy Loam	Stones	Vegetation
32386397	GR03-SP311-C-S2	0.00 - 0.10	Black	Loamy Sand	Stones	Vegetation
32386437	GR03-SP313-C-S1	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32386439	GR03-SP313-C-S1	0.00 - 0.10	Dark Brown	Silt Loam	Vegetation	None
32386447	GR03-SP313-C-S1	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32386457	GR03-SP313-C-S1	0.40 - 0.50	Dark Brown	Silty Clay Loam	None	None
32386460	GR03-SP313-C-S2	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32386462	GR03-SP313-C-S2	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Vegetation	Stones
32386403	GR03-SP311-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32386408	GR03-SP311-D	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32386411	GR03-SP311-D	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None
32386464	GR03-SP313-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32386466	GR03-SP313-D	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32386469	GR03-SP313-D	0.50 - 0.60	Light Brown	Silty Clay Loam	None	None
32386414	GR03-SP311-E	0.00 - 0.10	Black	Sandy Clay Loam	Stones	Vegetation
32386416	GR03-SP311-E	0.30 - 0.40	Light Brown	Dry Sample Received	Stones	Vegetation
32386419	GR03-SP311-E	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32386471	GR03-SP313-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32386478	GR03-SP313-E	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32386481	GR03-SP313-E	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP311-A	GR03-SP311-A	GR03-SP311-A	GR03-SP313-A	GR03-SP313-A	GR03-SP313-A
#	ISO17025 accredited.			0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002				
PFMOPrA (377-73-1)	<0.001 µg/l	TM434			<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP311-A	GR03-SP311-A	GR03-SP311-A	GR03-SP313-A	GR03-SP313-A	GR03-SP313-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
* Subcontracted - refer to subcontractor report for accreditation status.					32386390	32386422	32386451	32386425	32386427	32386429
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	WT	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024			19	14		32	28	21
Soil Organic Matter (SOM)	<0.35 %	TM132			7.22	0.965		9.1	5.81	2.03
					#	#		#	#	#
pH	1 pH Units	TM133			8.04	8.15		7.4	7.77	7.79
					M	M		M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.43	<0.5		<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref.	GR03-SP311-A	GR03-SP311-A	GR03-SP311-A	GR03-SP313-A	GR03-SP313-A	GR03-SP313-A
# ISO17025 accredited.			0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.			30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*9@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.79	1.21		3.33	3.94	5.68
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	0.825	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP311-B	GR03-SP311-B	GR03-SP311-B	GR03-SP313-B	GR03-SP313-B	GR03-SP313-B
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.58	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M mCERTS accredited.					Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.					30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt Dissolved / filtered sample.					01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfiltTotal / unfiltered sample.					251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
* Subcontracted - refer to subcontractor report for accreditation status.					32386484	32386486	32386488	32386431	32386433	32386435
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ESALS	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	17	14	28	29	26
Soil Organic Matter (SOM)	<0.35 %	TM132			5.4	2.19	1.01	6.4	5.15	3.83
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.14	8.34	8.55	7.81	7.48	7.47
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.2	0.925	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.37	1.21	1.55	5.94	7.59	9.42
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP311-C-S1	GR03-SP311-C-S1	GR03-SP311-C-S1	GR03-SP311-C-S1	GR03-SP311-C-S2	GR03-SP311-C-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
* Subcontracted - refer to subcontractor report for accreditation status.					32386490	32386492	32386494	32386393	32386395	32386397
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ES	ES	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4**\$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			22	23	19	12	21	20
Soil Organic Matter (SOM)	<0.35 %	TM132			7.24	6.76	2.78	0.893	7.15	7.52
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.97	7.74	8.37	8.6	7.99	8.11
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.19	1.55	1.26	<0.5	1.49	1.76
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.14	2.5	1.46	1.94	1.96	1.98
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	0.907	<0.6	<0.6	0.877	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S2
#	ISO17025 accredited.	M							
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	0.00 - 0.10	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
PFBA (375-22-4)	<0.002 µg/l	TM434	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFMOPra (377-73-1)	<0.001 µg/l	TM434	Date Sampled	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Sample Time						
PFPA (2706-90-3)	<0.001 µg/l	TM434	Date Received	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	SDG Ref	251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	Lab Sample No.(s)	32386437	32386439	32386441	32386447	32386457	32386460
NFDHA (151772-58-6)	<0.003 µg/l	TM434	AGS Reference	ESA1	ESA2	WS	ES	ES	ESA1
PFBS (375-73-5)	<0.001 µg/l	TM434							
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434							
PFHxS (355-46-4)	<0.001 µg/l	TM434							
PFNA (375-95-1)	<0.001 µg/l	TM434							
PFHpS (375-92-8)	<0.001 µg/l	TM434							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							
PFDA (335-76-2)	<0.002 µg/l	TM434							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							
Branched PFOS	<0.00065 µg/l	TM434							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							
PFUnA (2058-94-8)	<0.002 µg/l	TM434							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							
PFNS (68259-12-1)	<0.001 µg/l	TM434							
FHxSA (41997-13-1)	<0.001 µg/l	TM434							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
* Subcontracted - refer to subcontractor report for accreditation status.					32386437	32386439	32386441	32386447	32386457	32386460
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	WS	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	31		31			25	37	27
Soil Organic Matter (SOM)	<0.35 %	TM132	7.84	#	7.84	#		5.22	6.91	7.19
pH	1 pH Units	TM133	7.24	M	7.12	M		7.35	7.36	7.2
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8			<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8			<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1			<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5			<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
* Subcontracted - refer to subcontractor report for accreditation status.					32386437	32386439	32386441	32386447	32386457	32386460
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	WS	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.92	4.18		11.5	24.7	5.3
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.						
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method		GR03-SP313-C-S2	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP313-D
PFBA (375-22-4)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFMOPra (377-73-1)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFPA (2706-90-3)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFMObA (863090-89-5)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
NFDHA (151772-58-6)	<0.003 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFBS (375-73-5)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFHxA (307-24-4)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFEESA (113507-82-7)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFHpA (375-85-9)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFPeS (2706-91-4)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
ADONA (919005-14-4)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
FBSA (30334-69-1)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFOA (335-67-1)	<0.00065 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFHxS (355-46-4)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFNA (375-95-1)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFHpS (375-92-8)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFDA (335-76-2)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
Branched PFOS	<0.00065 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFUnA (2058-94-8)	<0.002 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
PFNS (68259-12-1)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
FHxSA (41997-13-1)	<0.001 µg/l	TM434		0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP313-C-S2	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP313-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
* Subcontracted - refer to subcontractor report for accreditation status.					32386462	32386399	32386403	32386408	32386411	32386464
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*% Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.004				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.004				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.006				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.004				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.004				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.002				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.004				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.004				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.002				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.02				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.002				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.02				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.002				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.002				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.02				
Total PFOS	<0.00065 µg/l	TM434				<0.0013				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.18				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.002				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.002				
Moisture Content Ratio (% of as received sample)	%	PM024			21		19	17	14	27
Soil Organic Matter (SOM)	<0.35 %	TM132			6.48		6.4	2.84	0.622	4.57
					#		#	#	#	#
pH	1 pH Units	TM133			7.26		8.12	8.11	8.19	7.84
					M		M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		0.964	0.893	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP313-C-S2	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP313-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 30/10/2025	0.00 - 0.60 Process Water (PR) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025	0.30 - 0.40 Soil/Solid (S) 30/10/2025	0.50 - 0.60 Soil/Solid (S) 30/10/2025	0.10 - 0.20 Soil/Solid (S) 30/10/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
*** 6:2 FTAB (see appendix)				32386462	32386399	32386403	32386408	32386411	32386464
1-4**@ Sample deviation (see appendix)				ESA2	VS	ES	ES	ES	ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		5.59		2.19	1.73	0.624	4.29
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6		0.798	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP313-D	GR03-SP313-D	GR03-SP311-E	GR03-SP311-E	GR03-SP311-E	GR03-SP313-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251101-67	251101-67	251101-67	251101-67	251101-67	251101-67
Subcontracted - refer to subcontractor report for accreditation status.					32386466	32386469	32386414	32386416	32386419	32386471
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESALS	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			21	19	21	13	14	30
Soil Organic Matter (SOM)	<0.35 %	TM132			3.19	1.28	6.38	1.38	1.44	5.64
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.93	7.81	8.05	8.55	8.41	7.55
					M	M	M	#	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	1.01	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			7.23	4.57	2.35	2.63	6.69	6.63
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP313-E	GR03-SP313-E	GR03-SP313-E			
# ISO17025 accredited.			0.10 - 0.20	0.30 - 0.40	0.50 - 0.60			
M mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)			
aq Aqueous / settled sample.			30/10/2025	30/10/2025	30/10/2025			
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6.2 FTAB (see appendix)								
1-4**@Sample deviation (see appendix)								
Component	LOD/Units	Method						
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065					
Branched PFOS	<0.00065 µg/l	TM434	<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.					
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP313-E 0.10 - 0.20 Process Water (PR) 30/10/2025 01/11/2025 251101-67 32386474 WT	GR03-SP313-E 0.30 - 0.40 Soil/Solid (S) 30/10/2025 01/11/2025 251101-67 32386478 ES	GR03-SP313-E 0.50 - 0.60 Soil/Solid (S) 30/10/2025 01/11/2025 251101-67 32386481 ESALS		
m	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*5@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
PFDaA (307-55-1)	<0.002 µg/l	TM434		<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.002				
PFTraDA (72629-94-8)	<0.003 µg/l	TM434		<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434		<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434		<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.01				
Total PFOS	<0.00065 µg/l	TM434		<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.001				
PFTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			22	14		
Soil Organic Matter (SOM)	<0.35 %	TM132			3.81	1.76		
pH	1 pH Units	TM133			7.94	7.71		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP313-E 0.10 - 0.20 Process Water (PR) 30/10/2025 01/11/2025 251101-67 32386474 WT	GR03-SP313-E 0.30 - 0.40 Soil/Solid (S) 30/10/2025 01/11/2025 251101-67 32386478 ES	GR03-SP313-E 0.50 - 0.60 Soil/Solid (S) 30/10/2025 01/11/2025 251101-67 32386481 ESALS			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440		20.2	19.9			
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5			
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4			
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5			
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5			
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8			
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6			
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6			
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6			
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7			
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5			
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67

Report Number: 783298

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251101-67
Client Ref.: UK-70100310

Report Number: 783298
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32386390	32386422	32386451	32386425	32386427	32386429	32386484	32386486	32386488	32386431
	GR03-SP311-A	GR03-SP311-A	GR03-SP311-A	GR03-SP313-A	GR03-SP313-A	GR03-SP313-A	GR03-SP311-B	GR03-SP311-B	GR03-SP311-B	GR03-SP313-B
	ES	ESALS	WT	ES	ES	ES	ES	ES	ES	ESALS
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.58	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
PFAS Liquids (Full Suite)			06-Nov-2025							
pH	11-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025		05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	14-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32386433	32386435	32386393	32386490	32386492	32386494	32386395	32386397	32386437	32386439
	GR03-SP313-B	GR03-SP313-B	GR03-SP311-C-S1	GR03-SP311-C-S1	GR03-SP311-C-S1	GR03-SP311-C-S1	GR03-SP311-C-S2	GR03-SP311-C-S2	GR03-SP313-C-S1	GR03-SP313-C-S1
	ES	ES	ES	ESA1	ESA2	ES	ESA1	ESA2	ESA1	ESA2
	0.30 - 0.40	0.50 - 0.60	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10	0.00 - 0.10	0.00 - 0.10	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
pH	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	17-Nov-2025	17-Nov-2025	17-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	17-Nov-2025	17-Nov-2025	14-Nov-2025	17-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32386441	32386447	32386457	32386460	32386462	32386399	32386403	32386408	32386411	32386464
	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S1	GR03-SP313-C-S2	GR03-SP313-C-S2	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP311-D	GR03-SP313-D
	WS	ES	ES	ESA1	ESA2	WS	ES	ES	ES	ES
	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
PFAS Liquids (Full Suite)	06-Nov-2025					06-Nov-2025				
pH		11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description		05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	14-Nov-2025	14-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32386466	32386469	32386414	32386416	32386419	32386471	32386474	32386478	32386481
	GR03-SP313-D	GR03-SP313-D	GR03-SP311-E	GR03-SP311-E	GR03-SP311-E	GR03-SP313-E	GR03-SP313-E	GR03-SP313-E	GR03-SP313-E
	ES	ES	ES	ES	ESALS	ES	WT	ES	ESALS
	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025
PFAS Liquids (Full Suite)							06-Nov-2025		
pH	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025	05-Nov-2025
Total Organic Carbon	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	14-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025



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Validated

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Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3248	QC 3296	QC 3239
10:2 FTS (Raw)	TM440	76.65 53.10 : 140.00	83.32 53.10 : 140.00	70.95 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	96.71 53.56 : 141.19	69.35 53.56 : 141.19	78.98 53.56 : 141.19
3:3 FTCA (Raw)	TM440	81.53 50.54 : 133.25	75.71 50.54 : 133.25	74.9 50.54 : 133.25
4:2 FTS (Raw)	TM440	82.34 56.34 : 145.91	85.44 56.34 : 145.91	84.44 56.34 : 145.91
5:3 FTCA (Raw)	TM440	102.76 52.66 : 130.08	82.59 52.66 : 130.08	84.8 52.66 : 130.08
6:2 FTAB (Raw)	TM440	30.4 38.50 : 101.50	28.58 38.50 : 101.50	17.43 38.50 : 101.50
6:2 FTS (Raw)	TM440	78.91 54.79 : 144.46	86.34 54.79 : 144.46	77.28 54.79 : 144.46
7:3 FTCA (Raw)	TM440	86.16 48.60 : 128.14	70.46 48.60 : 128.14	75.34 48.60 : 128.14
8:2 diPAP (Raw)	TM440	71.36 56.03 : 147.72	72.86 56.03 : 147.72	79.47 56.03 : 147.72
8:2 FTS (Raw)	TM440	73.8 55.74 : 146.96	84.41 55.74 : 146.96	80.13 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	77.07 54.59 : 143.91	80.55 54.59 : 143.91	78.72 54.59 : 143.91
ADONA (Raw)	TM440	72.61 54.01 : 132.33	79.01 54.01 : 132.33	75.2 54.01 : 132.33
Branched PFOS (Raw)	TM440	69.62 54.09 : 142.61	80.38 54.09 : 142.61	84.99 54.09 : 142.61
EtFOSAA (Raw)	TM440	76.13 52.48 : 138.36	79.18 52.48 : 138.36	74.92 52.48 : 138.36
EtFOSE (Raw)	TM440	79.33 57.05 : 145.29	80.25 57.05 : 145.29	78.24 57.05 : 145.29
FBSA (Raw)	TM440	83.49 49.51 : 125.13	73.0 49.51 : 125.13	76.89 49.51 : 125.13
FHxSA (Raw)	TM440	84.02 50.38 : 132.82	67.63 50.38 : 132.82	72.18 50.38 : 132.82
HFPO-DA (Raw)	TM440	75.63 53.47 : 140.98	75.98 53.47 : 140.98	75.48 53.47 : 140.98
HFPO-TA (Raw)	TM440	90.38 54.77 : 144.39	88.94 54.77 : 144.39	86.28 54.77 : 144.39
L-PFOS (Raw)	TM440	69.62 54.09 : 142.61	80.38 54.09 : 142.61	85.16 54.09 : 142.61
MeFOSAA (Raw)	TM440	75.59 53.02 : 139.78	67.79 53.02 : 139.78	73.56 53.02 : 139.78
MeFOSE (Raw)	TM440	76.35 54.99 : 144.97	81.34 54.99 : 144.97	76.59 54.99 : 144.97
N-EtFOSA (Raw)	TM440	78.46 59.56 : 132.93	77.29 59.56 : 132.93	75.32 59.56 : 132.93
NFDHA (Raw)	TM440	80.66 57.35 : 151.20	78.35 57.35 : 151.20	80.35 57.35 : 151.20
N-MeFOSA (Raw)	TM440	77.13 59.19 : 133.01	80.28 59.19 : 133.01	71.69 59.19 : 133.01
PFBA (Raw)	TM440	81.39 52.69 : 138.91	79.36 52.69 : 138.91	81.21 52.69 : 138.91



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PFAS in soils

		QC 3248	QC 3296	QC 3239
PFBS (Raw)	TM440	74.08 53.31 : 140.54	73.17 53.31 : 140.54	77.99 53.31 : 140.54
PFDA (Raw)	TM440	79.86 53.39 : 140.76	79.48 53.39 : 140.76	81.23 53.39 : 140.76
PFDoA (Raw)	TM440	84.74 52.85 : 139.34	79.98 52.85 : 139.34	72.69 52.85 : 139.34
PFDoS (Raw)	TM440	73.71 55.29 : 145.76	72.34 55.29 : 145.76	73.59 55.29 : 145.76
PFDS (Raw)	TM440	88.04 52.94 : 139.56	71.45 52.94 : 139.56	80.99 52.94 : 139.56
PFecHS (Raw)	TM440	74.34 50.75 : 133.80	71.22 50.75 : 133.80	71.47 50.75 : 133.80
PFEESA (Raw)	TM440	71.01 50.87 : 134.12	68.19 50.87 : 134.12	70.42 50.87 : 134.12
PFHpA (Raw)	TM440	79.58 52.61 : 138.69	79.32 52.61 : 138.69	75.62 52.61 : 138.69
PFHpS (Raw)	TM440	73.81 55.29 : 145.76	74.71 55.29 : 145.76	75.07 55.29 : 145.76
PFHxA (Raw)	TM440	81.27 54.05 : 142.50	83.3 54.05 : 142.50	79.34 54.05 : 142.50
PFHxDA (Raw)	TM440	74.32 52.03 : 137.17	74.3 52.03 : 137.17	77.03 52.03 : 137.17
PFHxS (Raw)	TM440	71.95 53.56 : 141.19	73.91 53.56 : 141.19	75.57 53.56 : 141.19
PFMOBA (Raw)	TM440	84.05 52.73 : 139.02	81.65 52.73 : 139.02	79.24 52.73 : 139.02
PFMOPra (Raw)	TM440	80.38 52.57 : 138.58	73.55 52.57 : 138.58	82.18 52.57 : 138.58
PFNA (Raw)	TM440	83.66 52.94 : 139.56	78.34 52.94 : 139.56	72.32 52.94 : 139.56
PFNS (Raw)	TM440	80.44 54.38 : 143.37	84.5 54.38 : 143.37	82.15 54.38 : 143.37
PFOA (Raw)	TM440	88.86 53.80 : 141.85	78.92 53.80 : 141.85	80.53 53.80 : 141.85
PFODA (Raw)	TM440	81.24 56.03 : 147.72	75.25 56.03 : 147.72	72.87 56.03 : 147.72
PFOSA (Raw)	TM440	76.01 53.10 : 140.00	74.53 53.10 : 140.00	75.62 53.10 : 140.00
PFFPA (Raw)	TM440	82.81 53.89 : 142.06	78.16 53.89 : 142.06	78.36 53.89 : 142.06
PFPeS (Raw)	TM440	72.21 54.30 : 143.15	75.69 54.30 : 143.15	69.99 54.30 : 143.15
PFTeA (Raw)	TM440	91.87 53.06 : 139.89	87.58 53.06 : 139.89	82.98 53.06 : 139.89
PFTrDA (Raw)	TM440	102.69 51.70 : 136.30	90.88 51.70 : 136.30	87.87 51.70 : 136.30
PFTrDS (Raw)	TM440	71.69 56.24 : 148.26	72.36 56.24 : 148.26	76.88 56.24 : 148.26
PFUnA (Raw)	TM440	81.09 53.35 : 140.65	82.11 53.35 : 140.65	77.89 53.35 : 140.65
PFUnDS (Raw)	TM440	84.72 53.60 : 141.30	73.7 53.60 : 141.30	69.15 53.60 : 141.30

PFAS Liquids (Full Suite)



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Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3218
11CI-PF3OUdS (763051-92-9)	TM434	131.28 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	112.4 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	94.97 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	135.43 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	85.47 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	98.81 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	144.12 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	93.52 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	94.0 69.20 : 147.13
ADONA (919005-14-4)	TM434	94.76 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	94.72 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	71.3 67.47 : 136.89
FBSA (30334-69-1)	TM434	110.28 63.70 : 143.28
FHxSA (41997-13-1)	TM434	136.78 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	107.89 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	90.28 69.04 : 147.42
Linear PFOS (1763-23-1)	TM434	93.89 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	92.62 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	79.33 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	79.48 57.83 : 132.08
NFDHA (151772-58-6)	TM434	101.41 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	73.89 61.69 : 135.49
PFBA (375-22-4)	TM434	96.97 74.68 : 133.63
PFBS (375-73-5)	TM434	94.33 74.09 : 133.79
PFDA (335-76-2)	TM434	95.54 72.39 : 135.76
PFDaA (307-55-1)	TM434	93.12 58.06 : 148.21
PFDoS (79780-39-5)	TM434	124.48 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3218
PFDS (335-77-3)	TM434	110.33 58.61 : 140.44
PFEESA (113507-82-7)	TM434	93.41 62.25 : 138.08
PFHpA (375-85-9)	TM434	95.24 75.71 : 136.46
PFHpS (375-92-8)	TM434	90.05 76.13 : 132.38
PFHxA (307-24-4)	TM434	96.87 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	88.73 71.24 : 136.49
PFHxS (355-46-4)	TM434	96.28 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	95.56 76.41 : 130.26
PFMOPrA (377-73-1)	TM434	104.53 65.74 : 128.74
PFNA (375-95-1)	TM434	92.45 75.01 : 133.06
PFNS (68259-12-1)	TM434	95.72 74.74 : 129.26
PFOA (335-67-1)	TM434	96.21 74.76 : 136.11
PFODA (16517-11-6)	TM434	100.46 53.58 : 141.25
PFOSA (754-91-6)	TM434	95.17 76.54 : 135.04
PFPA (2706-90-3)	TM434	96.68 77.89 : 134.66
PFPeS (2706-91-4)	TM434	94.09 69.49 : 132.71
PFTeA (376-06-7)	TM434	97.17 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	94.65 67.04 : 136.04
PFUnA (2058-94-8)	TM434	92.65 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	125.54 71.45 : 127.25

pH

Component	Method Code	QC 3290	QC 3292	QC 3294
pH	TM133	99.78 95.29 : 105.24	100.11 95.29 : 105.24	99.94 95.29 : 105.24

Total Organic Carbon



CERTIFICATE OF ANALYSIS

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Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3215	QC 3265	QC 3274	QC 3279
Total Organic Carbon	TM132	97.61 93.61 : 106.00	96.69 93.61 : 106.00	97.82 93.61 : 106.00	96.11 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	14 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251103-17
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	783171
Order Number:	UK-70100310

We received 47 samples on Saturday November 01, 2025 and 46 of these samples were scheduled for analysis which was completed on Friday November 14, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32389580	GR03-SP307-A-S1	ES	0.00 - 0.10	31/10/2025
32389603	GR03-SP307-A-S1	ESA1	0.30 - 0.40	31/10/2025
32389626	GR03-SP307-A-S1	ESA2	0.30 - 0.40	31/10/2025
32389657	GR03-SP307-A-S1	ES	0.40 - 0.50	31/10/2025
32389678	GR03-SP307-A-S2	ESA1	0.30 - 0.40	31/10/2025
32389680	GR03-SP307-A-S2	ESA2	0.30 - 0.40	31/10/2025
32389619	GR03-SP324-A-S1	ES	0.00 - 0.10	31/10/2025
32389621	GR03-SP324-A-S1	WS	0.00 - 0.50	31/10/2025
32389624	GR03-SP324-A-S1	ES	0.30 - 0.40	31/10/2025
32389629	GR03-SP324-A-S1	ESA1	0.40 - 0.50	31/10/2025
32389634	GR03-SP324-A-S1	ESA2	0.40 - 0.50	31/10/2025
32389639	GR03-SP324-A-S2	ESA1	0.40 - 0.50	31/10/2025
32389642	GR03-SP324-A-S2	ESA2	0.40 - 0.50	31/10/2025
32389682	GR03-SP307-B	WS	0.00 - 0.60	31/10/2025
32389685	GR03-SP307-B	ES	0.10 - 0.20	31/10/2025
32389687	GR03-SP307-B	ES	0.20 - 0.30	31/10/2025
32389582	GR03-SP307-B	ES	0.50 - 0.60	31/10/2025
32389644	GR03-SP324-B	ESALS	0.10 - 0.20	31/10/2025
32389646	GR03-SP324-B	ES	0.20 - 0.30	31/10/2025
32389648	GR03-SP324-B	ES	0.50 - 0.60	31/10/2025
32389650	GR03-SP324-B	WT	0.50 - 0.60	31/10/2025
32389584	GR03-SP307-C	ES	0.00 - 0.10	31/10/2025
32389586	GR03-SP307-C	ES	0.20 - 0.30	31/10/2025
32389588	GR03-SP307-C	ESALS	0.40 - 0.50	31/10/2025
32389653	GR03-SP324-C	ES	0.00 - 0.10	31/10/2025
32389655	GR03-SP324-C	ES	0.20 - 0.30	31/10/2025
32389660	GR03-SP324-C	ESALS	0.40 - 0.50	31/10/2025
32389590	GR03-SP307-D	ES	0.10 - 0.20	31/10/2025
32389592	GR03-SP307-D	ES	0.30 - 0.40	31/10/2025
32389594	GR03-SP307-D	ES	0.50 - 0.60	31/10/2025
32389662	GR03-SP324-D	ES	0.00 - 0.10	31/10/2025
32389664	GR03-SP324-D	WS	0.00 - 0.50	31/10/2025
32389667	GR03-SP324-D	ES	0.30 - 0.40	31/10/2025
32389670	GR03-SP324-D	ES	0.40 - 0.50	31/10/2025
32389596	GR03-SP307-E	ES	0.00 - 0.10	31/10/2025
32389598	GR03-SP307-E	ES	0.30 - 0.40	31/10/2025
32389601	GR03-SP307-E	ES	0.40 - 0.50	31/10/2025
32389672	GR03-SP324-E	ES	0.10 - 0.20	31/10/2025
32389674	GR03-SP324-E	ESALS	0.20 - 0.30	31/10/2025
32389676	GR03-SP324-E	ES	0.50 - 0.60	31/10/2025
32389605	GR03-SP307-F	ES	0.10 - 0.20	31/10/2025
32389607	GR03-SP307-F	ESALS	0.20 - 0.30	31/10/2025
32389609	GR03-SP307-F	ES	0.50 - 0.60	31/10/2025
32389611	GR03-SP307-G	ES	0.00 - 0.10	31/10/2025
32389613	GR03-SP307-G	ESGEOTEXTILE	0.10	31/10/2025
32389615	GR03-SP307-G	ES	0.20 - 0.30	31/10/2025
32389617	GR03-SP307-G	ES	0.40 - 0.50	31/10/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS in soils	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 4								X						X					
pH	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 36	X	X	X	X	X	X	X			X	X	X	X		X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X

32389676	GR03-SP324-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X			X
32389674	GR03-SP324-E	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389672	GR03-SP324-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389601	GR03-SP307-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389598	GR03-SP307-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389596	GR03-SP307-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389670	GR03-SP324-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389667	GR03-SP324-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389664	GR03-SP324-D	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X					
32389662	GR03-SP324-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389594	GR03-SP307-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389592	GR03-SP307-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X			X
32389590	GR03-SP307-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389660	GR03-SP324-C	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389655	GR03-SP324-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389653	GR03-SP324-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389588	GR03-SP307-C	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389586	GR03-SP307-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389584	GR03-SP307-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X	X
32389650	GR03-SP324-B	WT	0.50 - 0.60	50ml digitube (ALE001)	PW		X					
32389648	GR03-SP324-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X			X



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SDG: 251103-17
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Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend

- X** Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

	Lab Sample No(s)		32389617	32389615	32389611	32389609	32389607	32389605
	Customer Sample Reference		GR03-SP307-G	GR03-SP307-G	GR03-SP307-G	GR03-SP307-F	GR03-SP307-F	GR03-SP307-F
	AGS Reference		ES	ES	ES	ES	ESALS	ES
	Depth (m)		0.40 - 0.50	0.20 - 0.30	0.00 - 0.10	0.50 - 0.60	0.20 - 0.30	0.10 - 0.20
	Container		1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)
	Sample Type		S	S	S	S	S	S
PFAS in soils	All	NDPs: 0 Tests: 42	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 42	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 36	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 42	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

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SDG: 251103-17
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Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine <0.063mm **fine** 0.063mm - 0.1mm **medium** 0.1mm - 2mm **coarse** 2mm - 10mm **very coarse** >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32389580	GR03-SP307-A-S1	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	Stones
32389603	GR03-SP307-A-S1	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32389626	GR03-SP307-A-S1	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32389657	GR03-SP307-A-S1	0.40 - 0.50	Light Brown	Silty Clay	Vegetation	None
32389678	GR03-SP307-A-S2	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32389680	GR03-SP307-A-S2	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32389619	GR03-SP324-A-S1	0.00 - 0.10	Dark Brown	Silt Loam	Stones	Vegetation
32389624	GR03-SP324-A-S1	0.30 - 0.40	Light Brown	Silty Clay Loam	Brick	Stones
32389629	GR03-SP324-A-S1	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32389634	GR03-SP324-A-S1	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32389639	GR03-SP324-A-S2	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32389642	GR03-SP324-A-S2	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32389582	GR03-SP307-B	0.50 - 0.60	Dark Brown	Silt Loam	None	None
32389685	GR03-SP307-B	0.10 - 0.20	Light Brown	Silty Clay Loam	Vegetation	Stones
32389687	GR03-SP307-B	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32389644	GR03-SP324-B	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32389646	GR03-SP324-B	0.20 - 0.30	Light Brown	Silty Clay	Stones	Vegetation
32389648	GR03-SP324-B	0.50 - 0.60	Light Brown	Silty Clay Loam	Metal	Stones
32389584	GR03-SP307-C	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32389586	GR03-SP307-C	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32389588	GR03-SP307-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32389653	GR03-SP324-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32389655	GR03-SP324-C	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	None
32389660	GR03-SP324-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32389590	GR03-SP307-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32389592	GR03-SP307-D	0.30 - 0.40	Light Brown	Silty Clay	Stones	Plastic
32389594	GR03-SP307-D	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Concrete/Aggregate
32389662	GR03-SP324-D	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32389667	GR03-SP324-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	None
32389670	GR03-SP324-D	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32389596	GR03-SP307-E	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Glass & Stones	Vegetation
32389598	GR03-SP307-E	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32389601	GR03-SP307-E	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32389672	GR03-SP324-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32389674	GR03-SP324-E	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32389676	GR03-SP324-E	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Plastic
32389605	GR03-SP307-F	0.10 - 0.20	Light Brown	Sandy Clay Loam	Stones	Vegetation
32389607	GR03-SP307-F	0.20 - 0.30	Light Brown	Silty Clay Loam	Fibres	Stones
32389609	GR03-SP307-F	0.50 - 0.60	Light Brown	Sandy Clay Loam	Concrete/Aggregate	Stones

17:14:47 14/11/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32389611	GR03-SP307-G	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32389615	GR03-SP307-G	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32389617	GR03-SP307-G	0.40 - 0.50	Light Brown	Silty Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP307-A-S1	GR03-SP307-A-S1	GR03-SP307-A-S1	GR03-SP307-A-S1	GR03-SP307-A-S2	GR03-SP307-A-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.30 - 0.40	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389580	32389603	32389626	32389657	32389678	32389680
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESA1	ESA2	ES	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			21	18	19	19	14	16
Soil Organic Matter (SOM)	<0.35 %	TM132			2.52	2.1	2.33	1.69	1.07	1.12
pH	1 pH Units	TM133			7.37	7.77	7.55	7.62	8.42	8.48
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.06	1.21	2.17	1.76	1.48	1.59
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



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Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S2
# ISO17025 accredited.	M mCERTS accredited.			0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
aq Aqueous / settled sample.		Depth (m)		Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt Dissolved / filtered sample.		Sample Type		31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
tot.unfiltTotal / unfiltered sample.		Date Sampled							
* Subcontracted - refer to subcontractor report for accreditation status.		Sample Time							
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		Date Received		01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
*** 6:2 FTAB (see appendix)		SDG Ref	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	
1-4**@ Sample deviation (see appendix)		Lab Sample No.(s)	32389619	32389621	32389624	32389629	32389634	32389639	
		AGS Reference	ES	WS	ES	ESA1	ESA2	ESA1	
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434		<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434		<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434		<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.002					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		<0.00065					
Branched PFOS	<0.00065 µg/l	TM434		<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.002					
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389619	32389621	32389624	32389629	32389634	32389639
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ESA1	ESA2	ESA1
*** 6:2 FTAB (see appendix)										
1-4*9@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
PFechS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	23		24	20	21	18		
Soil Organic Matter (SOM)	<0.35 %	TM132	5.74	#	4.33	2.38	3.53	3.03	#	#
pH	1 pH Units	TM133	6.86	M	7.73	7.39	7.3	7.44	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389619	32389621	32389624	32389629	32389634	32389639
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	VS	ES	ESA1	ESA2	ESA1
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.04		1.19	2.58	3.35	2.76
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

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CERTIFICATE OF ANALYSIS

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SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP324-A-S2	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP324-B
#	ISO17025 accredited.			0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20
M	mCERTS accredited.			Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component		LOD/Units	Method						
PFBA (375-22-4)		<0.002 µg/l	TM434		<0.002				
PFMOPrA (377-73-1)		<0.001 µg/l	TM434		<0.001				
3:3 FTCA (356-02-5)		<0.005 µg/l	TM434		<0.005				
PFPA (2706-90-3)		<0.001 µg/l	TM434		<0.001				
PFMOBA (863090-89-5)		<0.001 µg/l	TM434		<0.001				
4:2 FTS (757124-72-4)		<0.001 µg/l	TM434		<0.001				
NFDHA (151772-58-6)		<0.003 µg/l	TM434		<0.003				
PFBS (375-73-5)		<0.001 µg/l	TM434		<0.001				
PFHxA (307-24-4)		<0.001 µg/l	TM434		<0.001				
HFPO-DA (13252-13-6)		<0.002 µg/l	TM434		<0.002				
PFEESA (113507-82-7)		<0.001 µg/l	TM434		<0.001				
PFHpA (375-85-9)		<0.001 µg/l	TM434		<0.001				
PFPeS (2706-91-4)		<0.001 µg/l	TM434		<0.001				
5:3 FTCA (914637-49-3)		<0.005 µg/l	TM434		<0.005				
ADONA (919005-14-4)		<0.001 µg/l	TM434		<0.001				
6:2 FTS (27619-97-2)		<0.001 µg/l	TM434		<0.001				
FBSA (30334-69-1)		<0.001 µg/l	TM434		<0.001				
PFOA (335-67-1)		<0.00065 µg/l	TM434		<0.00065				
PFHxS (355-46-4)		<0.001 µg/l	TM434		<0.001				
PFNA (375-95-1)		<0.001 µg/l	TM434		<0.001				
PFHpS (375-92-8)		<0.001 µg/l	TM434		<0.001				
8:2 FTS (39108-34-4)		<0.002 µg/l	TM434		<0.002				
HFPO-TA (13252-14-7)		<0.005 µg/l	TM434		<0.005				
PFDA (335-76-2)		<0.002 µg/l	TM434		<0.002				
MeFOSAA (2355-31-9)		<0.002 µg/l	TM434		<0.002				
7:3 FTCA (812-70-4)		<0.005 µg/l	TM434		<0.005				
Linear PFOS (1763-23-1)		<0.00065 µg/l	TM434		<0.00065				
Branched PFOS		<0.00065 µg/l	TM434		<0.00065				
EtFOSAA (2991-50-6)		<0.002 µg/l	TM434		<0.002				
PFUnA (2058-94-8)		<0.002 µg/l	TM434		<0.002				
9CI-PF3ONS (756426-58-1)		<0.001 µg/l	TM434		<0.001				
PFNS (68259-12-1)		<0.001 µg/l	TM434		<0.001				
FHxSA (41997-13-1)		<0.001 µg/l	TM434		<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP324-A-S2	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP324-B
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery. *** 6:2 FTAB (see appendix) 1-4# Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389642 ESA2	0.00 - 0.60 Process Water (PR) 31/10/2025 01/11/2025 251103-17 32389682 WS	0.10 - 0.20 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389685 ES	0.20 - 0.30 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389687 ES	0.50 - 0.60 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389582 ES	0.10 - 0.20 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389644 ESALS
Component	LOD/Units	Method							
PFDaA (307-55-1)	<0.002 µg/l	TM434			<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434			<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434			<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434			<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01				
Total PFOS	<0.00065 µg/l	TM434			<0.00065				
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	19		20	13	15	23	
Soil Organic Matter (SOM)	<0.35 %	TM132	3.21	#	2.97	1.1	1.78	5.22	#
pH	1 pH Units	TM133	7.44	M	7.84	8.25	7.6	7.76	M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-A-S2	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP324-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 31/10/2025	0.00 - 0.60 Process Water (PR) 31/10/2025	0.10 - 0.20 Soil/Solid (S) 31/10/2025	0.20 - 0.30 Soil/Solid (S) 31/10/2025	0.50 - 0.60 Soil/Solid (S) 31/10/2025	0.10 - 0.20 Soil/Solid (S) 31/10/2025
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					01/11/2025 251103-17 32389642 ESA2	01/11/2025 251103-17 32389682 WS	01/11/2025 251103-17 32389685 ES	01/11/2025 251103-17 32389687 ES	01/11/2025 251103-17 32389582 ES	01/11/2025 251103-17 32389644 ESALS
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.54		1.84	2.58	8.78	1.91
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-B	GR03-SP324-B	GR03-SP324-B	GR03-SP307-C	GR03-SP307-C	GR03-SP307-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389646	32389648	32389650	32389584	32389586	32389588
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-B	GR03-SP324-B	GR03-SP324-B	GR03-SP307-C	GR03-SP307-C	GR03-SP307-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389646	32389648	32389650	32389584	32389586	32389588
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024			19	21		22	19	20
Soil Organic Matter (SOM)	<0.35 %	TM132			2.17	3.29		6.05	2.28	2.53
pH	1 pH Units	TM133			8.22	7.65		6.39	8.61	8.47
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5

17:14:47 14/11/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-B	GR03-SP324-B	GR03-SP324-B	GR03-SP307-C	GR03-SP307-C	GR03-SP307-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfiltTotal	unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389646	32389648	32389650	32389584	32389586	32389588
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.17	3.02		<0.5	1.7	3.39
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP324-C	GR03-SP324-C	GR03-SP324-C	GR03-SP307-D	GR03-SP307-D	GR03-SP307-D						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389653 ES								0.20 - 0.30 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389655 ES	0.40 - 0.50 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389660 ESALS	0.10 - 0.20 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389590 ES	0.30 - 0.40 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389592 ES	0.50 - 0.60 Soil/Solid (S) 31/10/2025 01/11/2025 251103-17 32389594 ES	
Component	LOD/Units	Method								19	16	19	23	18	21
Moisture Content Ratio (% of as received sample)	%	PM024													
Soil Organic Matter (SOM)	<0.35 %	TM132								6.31	2.84	2.69	6.28	1.79	1.97
pH	1 pH Units	TM133								6.7	7.55	7.41	6.59	8.2	8.45
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.64	2.44	1.81	<0.5	1.08	1.76							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP307-E	GR03-SP307-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389662	32389664	32389667	32389670	32389596	32389598
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP307-E	GR03-SP307-E
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4* Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434							
PFDS (335-77-3)	<0.002 µg/l	TM434							
PFTrDA (72629-94-8)	<0.003 µg/l	TM434							
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							
PFTeA (376-06-7)	<0.001 µg/l	TM434							
PFOSA (754-91-6)	<0.002 µg/l	TM434							
PFDoS (79780-39-5)	<0.002 µg/l	TM434							
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434							
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							
PFODA (16517-11-6)	<0.001 µg/l	TM434							
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434							
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							
Total PFOS	<0.00065 µg/l	TM434							
PFecHS (646-83-3)	<0.001 µg/l	TM434							
PFTrDS (791563-89-8)	<0.001 µg/l	TM434							
Moisture Content Ratio (% of as received sample)	%	PM024	24			18	19	23	20
Soil Organic Matter (SOM)	<0.35 %	TM132	6.24	#		3.28	4.47	3.71	2.47
pH	1 pH Units	TM133	7.18	M		7.94	7.42	6.3	7.73
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8			<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8			<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1			<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP307-E	GR03-SP307-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 31/10/2025	0.00 - 0.50 Process Water (PR) 31/10/2025	0.30 - 0.40 Soil/Solid (S) 31/10/2025	0.40 - 0.50 Soil/Solid (S) 31/10/2025	0.00 - 0.10 Soil/Solid (S) 31/10/2025	0.30 - 0.40 Soil/Solid (S) 31/10/2025
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.				01/11/2025 251103-17 32389662 ES	01/11/2025 251103-17 32389664 WS	01/11/2025 251103-17 32389667 ES	01/11/2025 251103-17 32389670 ES	01/11/2025 251103-17 32389596 ES	01/11/2025 251103-17 32389598 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*5@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		2.74		2.58	5.32	<0.5	1.76
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP307-E	GR03-SP324-E	GR03-SP324-E	GR03-SP324-E	GR03-SP307-F	GR03-SP307-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
diss.filt	Dissolved / filtered sample.				01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025	01/11/2025
tot.unfilt	Total / unfiltered sample.				251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
* Subcontracted - refer to subcontractor report for accreditation status.					32389601	32389672	32389674	32389676	32389605	32389607
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			20	22	23	23	21	21
Soil Organic Matter (SOM)	<0.35 %	TM132			2.71	6.12	5.67	5.88	4.62	2.86
pH	1 pH Units	TM133			7.61	6.99	7.09	7.97	7.62	7.93
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.63	2.59	2.48	23.2	1.54	1.77
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP307-F	GR03-SP307-G	GR03-SP307-G	GR03-SP307-G		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 31/10/2025	0.00 - 0.10 Soil/Solid (S) 31/10/2025	0.20 - 0.30 Soil/Solid (S) 31/10/2025	0.40 - 0.50 Soil/Solid (S) 31/10/2025		
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			17	23	15	16		
Soil Organic Matter (SOM)	<0.35 %	TM132			1.06	8.96	2.26	1.6		
pH	1 pH Units	TM133			8.74	7.96	8.43	8.42		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.9	0.85	1.4	1.53		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17

Report Number: 783171

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32389580	32389603	32389626	32389657	32389678	32389680	32389619	32389621	32389624	32389629
	GR03-SP307-A-S1	GR03-SP307-A-S1	GR03-SP307-A-S1	GR03-SP307-A-S1	GR03-SP307-A-S2	GR03-SP307-A-S2	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1
	ES	ESA1	ESA2	ES	ESA1	ESA2	ES	WS	ES	ESA1
	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	12-Nov-2025	10-Nov-2025	14-Nov-2025	12-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025		12-Nov-2025	12-Nov-2025
PFAS Liquids (Full Suite)								11-Nov-2025		
pH	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025	05-Nov-2025
Total Organic Carbon	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	14-Nov-2025	13-Nov-2025		13-Nov-2025	13-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32389634	32389639	32389642	32389582	32389682	32389685	32389687	32389644	32389646	32389648
	GR03-SP324-A-S1	GR03-SP324-A-S2	GR03-SP324-A-S2	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP307-B	GR03-SP324-B	GR03-SP324-B	GR03-SP324-B
	ESA2	ESA1	ESA2	ES	WS	ES	ES	ESALS	ES	ES
	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	10-Nov-2025	12-Nov-2025	14-Nov-2025	14-Nov-2025		14-Nov-2025	14-Nov-2025	12-Nov-2025	10-Nov-2025	12-Nov-2025
PFAS Liquids (Full Suite)					11-Nov-2025					
pH	11-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025		05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025		14-Nov-2025	14-Nov-2025	13-Nov-2025	14-Nov-2025	14-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32389650	32389584	32389586	32389588	32389653	32389655	32389660	32389590	32389592	32389594
	GR03-SP324-B	GR03-SP307-C	GR03-SP307-C	GR03-SP307-C	GR03-SP324-C	GR03-SP324-C	GR03-SP324-C	GR03-SP307-D	GR03-SP307-D	GR03-SP307-D
	WT	ES	ES	ESALS	ES	ES	ESALS	ES	ES	ES
	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		14-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	10-Nov-2025	10-Nov-2025	10-Nov-2025	14-Nov-2025
PFAS Liquids (Full Suite)	11-Nov-2025									
pH		06-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Sample description		05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon		13-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32389662	32389664	32389667	32389670	32389596	32389598	32389601	32389672	32389674	32389676
	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	GR03-SP307-E	GR03-SP307-E	GR03-SP307-E	GR03-SP324-E	GR03-SP324-E	GR03-SP324-E
	ES	WS	ES	ES	ES	ES	ES	ES	ESALS	ES
	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	10-Nov-2025		14-Nov-2025	10-Nov-2025	10-Nov-2025	12-Nov-2025	10-Nov-2025	10-Nov-2025	14-Nov-2025	10-Nov-2025
PFAS Liquids (Full Suite)		11-Nov-2025								
pH	11-Nov-2025		06-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025	06-Nov-2025	11-Nov-2025
Sample description	05-Nov-2025		05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025
Total Organic Carbon	13-Nov-2025		13-Nov-2025	14-Nov-2025	14-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	14-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32389605	32389607	32389609	32389611	32389615	32389617				
	GR03-SP307-F	GR03-SP307-F	GR03-SP307-F	GR03-SP307-G	GR03-SP307-G	GR03-SP307-G				
	ES	ESALS	ES	ES	ES	ES				
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50				
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)				
PFAS in soils	12-Nov-2025	12-Nov-2025	12-Nov-2025	10-Nov-2025	10-Nov-2025	10-Nov-2025				
pH	11-Nov-2025	11-Nov-2025	11-Nov-2025	06-Nov-2025	06-Nov-2025	06-Nov-2025				
Sample description	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025	05-Nov-2025				
Total Organic Carbon	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251103-17
Client Ref.: UK-70100310

Report Number: 783171
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3240	QC 3259	QC 3236	QC 3218	QC 3250	QC 3272
10:2 FTS (Raw)	TM440	99.1 53.10 : 140.00	96.48 53.10 : 140.00	100.6 53.10 : 140.00	76.33 53.10 : 140.00	71.27 53.10 : 140.00	75.79 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	103.98 53.56 : 141.19	73.75 53.56 : 141.19	84.46 53.56 : 141.19	83.3 53.56 : 141.19	85.6 53.56 : 141.19	80.51 53.56 : 141.19
3:3 FTCA (Raw)	TM440	96.88 50.54 : 133.25	84.4 50.54 : 133.25	88.73 50.54 : 133.25	87.46 50.54 : 133.25	72.45 50.54 : 133.25	74.84 50.54 : 133.25
4:2 FTS (Raw)	TM440	92.79 56.34 : 145.91	88.6 56.34 : 145.91	92.91 56.34 : 145.91	91.04 56.34 : 145.91	82.98 56.34 : 145.91	83.48 56.34 : 145.91
5:3 FTCA (Raw)	TM440	88.19 52.66 : 130.08	87.68 52.66 : 130.08	94.39 52.66 : 130.08	74.32 52.66 : 130.08	71.38 52.66 : 130.08	69.28 52.66 : 130.08
6:2 FTAB (Raw)	TM440	36.09 38.50 : 101.50	37.92 38.50 : 101.50	38.83 38.50 : 101.50	35.87 38.50 : 101.50	32.07 38.50 : 101.50	33.59 38.50 : 101.50
6:2 FTS (Raw)	TM440	91.31 54.79 : 144.46	93.0 54.79 : 144.46	100.81 54.79 : 144.46	69.98 54.79 : 144.46	76.28 54.79 : 144.46	73.99 54.79 : 144.46
7:3 FTCA (Raw)	TM440	102.39 48.60 : 128.14	75.5 48.60 : 128.14	75.81 48.60 : 128.14	83.35 48.60 : 128.14	77.06 48.60 : 128.14	74.66 48.60 : 128.14
8:2 diPAP (Raw)	TM440	112.93 56.03 : 147.72	100.73 56.03 : 147.72	110.29 56.03 : 147.72	94.0 56.03 : 147.72	100.09 56.03 : 147.72	85.18 56.03 : 147.72
8:2 FTS (Raw)	TM440	94.48 55.74 : 146.96	79.09 55.74 : 146.96	90.68 55.74 : 146.96	85.73 55.74 : 146.96	81.86 55.74 : 146.96	84.75 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	97.01 54.59 : 143.91	85.5 54.59 : 143.91	83.74 54.59 : 143.91	83.77 54.59 : 143.91	76.85 54.59 : 143.91	78.19 54.59 : 143.91
ADONA (Raw)	TM440	88.74 54.01 : 132.33	79.74 54.01 : 132.33	82.67 54.01 : 132.33	80.78 54.01 : 132.33	78.2 54.01 : 132.33	74.53 54.01 : 132.33
Branched PFOS (Raw)	TM440	99.92 54.09 : 142.61	89.77 54.09 : 142.61	86.25 54.09 : 142.61	80.23 54.09 : 142.61	83.02 54.09 : 142.61	77.21 54.09 : 142.61
EtFOSAA (Raw)	TM440	104.39 52.48 : 138.36	70.3 52.48 : 138.36	87.94 52.48 : 138.36	79.71 52.48 : 138.36	72.77 52.48 : 138.36	71.21 52.48 : 138.36
EtFOSE (Raw)	TM440	92.93 57.05 : 145.29	81.18 57.05 : 145.29	85.03 57.05 : 145.29	81.59 57.05 : 145.29	76.56 57.05 : 145.29	76.79 57.05 : 145.29
FBSA (Raw)	TM440	89.79 49.51 : 125.13	76.74 49.51 : 125.13	87.49 49.51 : 125.13	79.27 49.51 : 125.13	70.94 49.51 : 125.13	67.89 49.51 : 125.13
FHxSA (Raw)	TM440	87.67 50.38 : 132.82	71.66 50.38 : 132.82	81.51 50.38 : 132.82	80.43 50.38 : 132.82	74.12 50.38 : 132.82	73.08 50.38 : 132.82
HFPO-DA (Raw)	TM440	92.8 53.47 : 140.98	80.23 53.47 : 140.98	84.82 53.47 : 140.98	82.35 53.47 : 140.98	78.98 53.47 : 140.98	75.3 53.47 : 140.98
HFPO-TA (Raw)	TM440	99.66 54.77 : 144.39	91.27 54.77 : 144.39	98.15 54.77 : 144.39	80.31 54.77 : 144.39	77.41 54.77 : 144.39	81.23 54.77 : 144.39
L-PFOS (Raw)	TM440	99.92 54.09 : 142.61	89.77 54.09 : 142.61	86.25 54.09 : 142.61	80.23 54.09 : 142.61	83.02 54.09 : 142.61	77.21 54.09 : 142.61
MeFOSAA (Raw)	TM440	111.79 53.02 : 139.78	80.97 53.02 : 139.78	87.4 53.02 : 139.78	79.09 53.02 : 139.78	77.7 53.02 : 139.78	72.76 53.02 : 139.78
MeFOSE (Raw)	TM440	93.21 54.99 : 144.97	72.4 54.99 : 144.97	74.57 54.99 : 144.97	82.98 54.99 : 144.97	77.73 54.99 : 144.97	72.51 54.99 : 144.97
N-EtFOSA (Raw)	TM440	99.24 59.56 : 132.93	74.76 59.56 : 132.93	79.83 59.56 : 132.93	77.35 59.56 : 132.93	72.21 59.56 : 132.93	73.66 59.56 : 132.93
NFDHA (Raw)	TM440	93.78 57.35 : 151.20	83.38 57.35 : 151.20	89.68 57.35 : 151.20	80.18 57.35 : 151.20	73.53 57.35 : 151.20	74.04 57.35 : 151.20
N-MeFOSA (Raw)	TM440	98.55 59.19 : 133.01	73.8 59.19 : 133.01	77.3 59.19 : 133.01	78.55 59.19 : 133.01	74.67 59.19 : 133.01	75.97 59.19 : 133.01
PFBA (Raw)	TM440	93.13 52.69 : 138.91	85.13 52.69 : 138.91	85.36 52.69 : 138.91	83.5 52.69 : 138.91	79.78 52.69 : 138.91	77.37 52.69 : 138.91



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PFAS in soils

		QC 3240	QC 3259	QC 3236	QC 3218	QC 3250	QC 3272
PFBS (Raw)	TM440	91.36 53.31 : 140.54	76.57 53.31 : 140.54	84.49 53.31 : 140.54	86.38 53.31 : 140.54	78.52 53.31 : 140.54	70.55 53.31 : 140.54
PFDA (Raw)	TM440	93.46 53.39 : 140.76	79.54 53.39 : 140.76	81.86 53.39 : 140.76	91.99 53.39 : 140.76	80.76 53.39 : 140.76	79.07 53.39 : 140.76
PFDoA (Raw)	TM440	95.38 52.85 : 139.34	79.59 52.85 : 139.34	90.02 52.85 : 139.34	85.95 52.85 : 139.34	78.9 52.85 : 139.34	78.57 52.85 : 139.34
PFDoS (Raw)	TM440	100.78 55.29 : 145.76	75.13 55.29 : 145.76	73.91 55.29 : 145.76	73.85 55.29 : 145.76	72.79 55.29 : 145.76	79.77 55.29 : 145.76
PFDS (Raw)	TM440	101.86 52.94 : 139.56	77.72 52.94 : 139.56	92.17 52.94 : 139.56	92.13 52.94 : 139.56	84.21 52.94 : 139.56	79.06 52.94 : 139.56
PFecHS (Raw)	TM440	89.07 50.75 : 133.80	83.55 50.75 : 133.80	83.81 50.75 : 133.80	74.76 50.75 : 133.80	69.38 50.75 : 133.80	71.59 50.75 : 133.80
PFEESA (Raw)	TM440	84.19 50.87 : 134.12	86.69 50.87 : 134.12	84.97 50.87 : 134.12	80.48 50.87 : 134.12	67.31 50.87 : 134.12	70.81 50.87 : 134.12
PFHpA (Raw)	TM440	94.1 52.61 : 138.69	83.71 52.61 : 138.69	88.34 52.61 : 138.69	80.43 52.61 : 138.69	78.94 52.61 : 138.69	78.12 52.61 : 138.69
PFHpS (Raw)	TM440	96.18 55.29 : 145.76	85.9 55.29 : 145.76	85.8 55.29 : 145.76	72.49 55.29 : 145.76	76.87 55.29 : 145.76	77.74 55.29 : 145.76
PFHxA (Raw)	TM440	92.55 54.05 : 142.50	81.14 54.05 : 142.50	85.19 54.05 : 142.50	84.3 54.05 : 142.50	79.34 54.05 : 142.50	82.74 54.05 : 142.50
PFHxDA (Raw)	TM440	95.25 52.03 : 137.17	80.16 52.03 : 137.17	85.25 52.03 : 137.17	95.15 52.03 : 137.17	76.73 52.03 : 137.17	78.38 52.03 : 137.17
PFHxS (Raw)	TM440	89.65 53.56 : 141.19	84.54 53.56 : 141.19	83.74 53.56 : 141.19	74.22 53.56 : 141.19	72.23 53.56 : 141.19	70.68 53.56 : 141.19
PFMOBA (Raw)	TM440	88.4 52.73 : 139.02	75.58 52.73 : 139.02	85.64 52.73 : 139.02	87.56 52.73 : 139.02	76.33 52.73 : 139.02	75.73 52.73 : 139.02
PFMOPra (Raw)	TM440	94.82 52.57 : 138.58	82.6 52.57 : 138.58	85.4 52.57 : 138.58	98.64 52.57 : 138.58	72.69 52.57 : 138.58	73.48 52.57 : 138.58
PFNA (Raw)	TM440	86.61 52.94 : 139.56	91.98 52.94 : 139.56	90.68 52.94 : 139.56	87.96 52.94 : 139.56	80.94 52.94 : 139.56	79.6 52.94 : 139.56
PFNS (Raw)	TM440	96.87 54.38 : 143.37	86.54 54.38 : 143.37	83.97 54.38 : 143.37	85.02 54.38 : 143.37	78.14 54.38 : 143.37	78.29 54.38 : 143.37
PFOA (Raw)	TM440	92.5 53.80 : 141.85	79.6 53.80 : 141.85	87.8 53.80 : 141.85	83.75 53.80 : 141.85	82.29 53.80 : 141.85	78.67 53.80 : 141.85
PFODA (Raw)	TM440	73.62 56.03 : 147.72	76.27 56.03 : 147.72	83.87 56.03 : 147.72	75.17 56.03 : 147.72	71.46 56.03 : 147.72	72.17 56.03 : 147.72
PFOSA (Raw)	TM440	89.41 53.10 : 140.00	78.06 53.10 : 140.00	85.51 53.10 : 140.00	82.42 53.10 : 140.00	77.11 53.10 : 140.00	75.34 53.10 : 140.00
PFPA (Raw)	TM440	90.29 53.89 : 142.06	76.16 53.89 : 142.06	82.62 53.89 : 142.06	84.33 53.89 : 142.06	81.17 53.89 : 142.06	78.91 53.89 : 142.06
PFPeS (Raw)	TM440	89.91 54.30 : 143.15	88.49 54.30 : 143.15	84.46 54.30 : 143.15	82.1 54.30 : 143.15	71.4 54.30 : 143.15	72.84 54.30 : 143.15
PFTeA (Raw)	TM440	102.35 53.06 : 139.89	88.19 53.06 : 139.89	91.6 53.06 : 139.89	84.38 53.06 : 139.89	75.86 53.06 : 139.89	82.85 53.06 : 139.89
PFTrDA (Raw)	TM440	102.37 51.70 : 136.30	86.86 51.70 : 136.30	101.03 51.70 : 136.30	90.13 51.70 : 136.30	79.82 51.70 : 136.30	80.34 51.70 : 136.30
PFTrDS (Raw)	TM440	106.42 56.24 : 148.26	74.07 56.24 : 148.26	75.5 56.24 : 148.26	80.87 56.24 : 148.26	77.73 56.24 : 148.26	72.67 56.24 : 148.26
PFUnA (Raw)	TM440	89.93 53.35 : 140.65	79.98 53.35 : 140.65	86.45 53.35 : 140.65	85.64 53.35 : 140.65	83.29 53.35 : 140.65	78.32 53.35 : 140.65
PFUnDS (Raw)	TM440	97.77 53.60 : 141.30	77.74 53.60 : 141.30	89.06 53.60 : 141.30	69.7 53.60 : 141.30	71.66 53.60 : 141.30	73.79 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3282	QC 3262	QC 3265
11CI-PF3OUdS (763051-92-9)	TM434	101.48 62.16 : 138.51	126.2 62.16 : 138.51	96.92 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	123.54 89.89 : 130.69	146.62 89.89 : 130.69	140.68 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	97.51 66.54 : 140.56	115.91 66.54 : 140.56	101.23 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	130.83 60.34 : 133.39	123.33 60.34 : 133.39	141.69 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	93.53 59.12 : 129.56	111.5 59.12 : 129.56	111.67 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	99.08 67.48 : 129.58	115.12 67.48 : 129.58	107.0 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	131.4 79.83 : 133.08	155.6 79.83 : 133.08	150.6 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	96.62 81.70 : 132.18	109.27 81.70 : 132.18	98.38 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	98.36 71.98 : 136.03	110.13 71.98 : 136.03	112.56 71.98 : 136.03
ADONA (919005-14-4)	TM434	116.01 70.14 : 142.14	119.32 70.14 : 142.14	118.88 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	88.02 67.04 : 131.16	106.5 67.04 : 131.16	104.99 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	60.7 67.92 : 135.38	184.09 67.92 : 135.38	105.85 67.92 : 135.38
FBSA (30334-69-1)	TM434	120.16 58.08 : 137.20	135.98 58.08 : 137.20	125.97 58.08 : 137.20
FHxSA (41997-13-1)	TM434	119.81 71.81 : 148.16	132.57 71.81 : 148.16	122.08 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	96.21 57.03 : 123.70	115.12 57.03 : 123.70	106.95 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	90.26 55.94 : 147.48	108.07 55.94 : 147.48	101.75 55.94 : 147.48
Linear PFOS (1763-23-1)	TM434	97.03 69.95 : 145.18	127.93 69.95 : 145.18	103.82 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	88.01 68.44 : 128.29	107.21 68.44 : 128.29	102.33 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	77.11 70.83 : 132.00	167.61 70.83 : 132.00	106.9 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	70.54 59.26 : 122.86	225.26 59.26 : 122.86	130.78 59.26 : 122.86
NFDHA (151772-58-6)	TM434	99.51 59.99 : 133.56	105.12 59.99 : 133.56	111.95 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	76.76 62.71 : 118.96	218.82 62.71 : 118.96	122.95 62.71 : 118.96
PFBA (375-22-4)	TM434	97.35 67.84 : 130.39	116.14 67.84 : 130.39	115.42 67.84 : 130.39
PFBS (375-73-5)	TM434	101.37 90.25 : 126.25	121.25 90.25 : 126.25	112.67 90.25 : 126.25
PFDA (335-76-2)	TM434	97.28 68.94 : 132.99	115.16 68.94 : 132.99	104.9 68.94 : 132.99
PFDaA (307-55-1)	TM434	94.13 66.19 : 135.04	109.74 66.19 : 135.04	105.4 66.19 : 135.04
PFDoS (79780-39-5)	TM434	106.5 65.90 : 146.45	121.77 65.90 : 146.45	107.15 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3282	QC 3262	QC 3265
PFDS (335-77-3)	TM434	123.82 64.84 : 138.49	118.29 64.84 : 138.49	115.01 64.84 : 138.49
PFEESA (113507-82-7)	TM434	100.56 67.24 : 129.19	120.65 67.24 : 129.19	100.17 67.24 : 129.19
PFHpA (375-85-9)	TM434	105.8 72.89 : 141.36	114.73 72.89 : 141.36	110.21 72.89 : 141.36
PFHpS (375-92-8)	TM434	85.52 72.19 : 155.36	118.14 72.19 : 155.36	99.44 72.19 : 155.36
PFHxA (307-24-4)	TM434	97.55 71.79 : 135.84	99.38 71.79 : 135.84	106.37 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	96.68 89.96 : 128.14	116.37 89.96 : 128.14	109.22 89.96 : 128.14
PFHxS (355-46-4)	TM434	111.21 84.41 : 134.44	118.56 84.41 : 134.44	107.41 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	112.92 84.99 : 139.74	130.81 84.99 : 139.74	117.68 84.99 : 139.74
PFMOPrA (377-73-1)	TM434	111.4 80.40 : 136.73	136.33 80.40 : 136.73	129.14 80.40 : 136.73
PFNA (375-95-1)	TM434	90.88 68.61 : 128.99	113.86 68.61 : 128.99	107.88 68.61 : 128.99
PFNS (68259-12-1)	TM434	111.61 70.70 : 130.93	113.55 70.70 : 130.93	112.11 70.70 : 130.93
PFOA (335-67-1)	TM434	104.17 74.09 : 143.61	120.51 74.09 : 143.61	115.55 74.09 : 143.61
PFODA (16517-11-6)	TM434	105.15 68.70 : 175.88	170.26 68.70 : 175.88	125.39 68.70 : 175.88
PFOSA (754-91-6)	TM434	92.65 67.59 : 130.51	116.42 67.59 : 130.51	104.39 67.59 : 130.51
PFPA (2706-90-3)	TM434	113.64 74.20 : 140.58	128.46 74.20 : 140.58	122.61 74.20 : 140.58
PFPeS (2706-91-4)	TM434	107.89 76.19 : 137.91	117.34 76.19 : 137.91	106.53 76.19 : 137.91
PFTeA (376-06-7)	TM434	112.31 66.36 : 144.96	118.18 66.36 : 144.96	107.81 66.36 : 144.96
PFTrDA (72629-94-8)	TM434	107.77 71.98 : 130.25	113.78 71.98 : 130.25	107.9 71.98 : 130.25
PFUnA (2058-94-8)	TM434	93.5 65.55 : 141.45	112.8 65.55 : 141.45	102.69 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	101.45 85.84 : 139.76	111.6 85.84 : 139.76	93.62 85.84 : 139.76

pH

Component	Method Code	QC 3243	QC 3245	QC 3243	QC 3245	QC 3247	QC 3249
pH	TM133	101.16 95.29 : 105.24	99.87 95.29 : 105.24	99.43 95.29 : 105.24	99.82 95.29 : 105.24	99.56 95.29 : 105.24	100.85 95.29 : 105.24



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pH

Component	Method Code	QC 3255
pH	TM133	100.02 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3285	QC 3289	QC 3229	QC 3235	QC 3239	QC 3211
Total Organic Carbon	TM132	97.68 93.61 : 106.00	97.23 93.61 : 106.00	96.74 93.61 : 106.00	97.16 93.61 : 106.00	96.89 93.61 : 106.00	96.07 93.61 : 106.00

Component	Method Code	QC 3215	QC 3219
Total Organic Carbon	TM132	97.61 93.61 : 106.00	96.53 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
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Deeside
CH5 3US

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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	26 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251107-27
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	784114
Order Number:	UK-70100310

We received 30 samples on Tuesday November 04, 2025 and 30 of these samples were scheduled for analysis which was completed on Wednesday November 26, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32412883	GR03-SP305-A	ES	0.00 - 0.10	03/11/2025
32412906	GR03-SP305-A	ES	0.20 - 0.30	03/11/2025
32412929	GR03-SP305-A	ES	0.40 - 0.50	03/11/2025
32412933	GR03-SP305-A	W	0.40 - 0.50	03/11/2025
32412910	GR04-SP437-A	ES	0.00 - 0.10	03/11/2025
32412912	GR04-SP437-A	WS	0.00 - 0.50	03/11/2025
32412915	GR04-SP437-A	ES	0.30 - 0.40	03/11/2025
32412917	GR04-SP437-A	ES	0.40 - 0.50	03/11/2025
32412936	GR03-SP305-B	ES	0.10 - 0.20	03/11/2025
32412938	GR03-SP305-B	ES	0.20 - 0.30	03/11/2025
32412941	GR03-SP305-B	ES	0.50 - 0.60	03/11/2025
32412919	GR04-SP437-B	ES	0.10 - 0.20	03/11/2025
32412921	GR04-SP437-B	ESALS	0.20 - 0.30	03/11/2025
32412923	GR04-SP437-B	ES	0.50 - 0.60	03/11/2025
32412943	GR03-SP305-C	ESALS	0.00 - 0.10	03/11/2025
32412945	GR03-SP305-C	ES	0.20 - 0.30	03/11/2025
32412885	GR03-SP305-C	ES	0.40 - 0.50	03/11/2025
32412925	GR04-SP437-C	ES	0.00 - 0.10	03/11/2025
32412927	GR04-SP437-C	ES	0.20 - 0.30	03/11/2025
32412931	GR04-SP437-C	ES	0.40 - 0.50	03/11/2025
32412887	GR03-SP305-D	ES	0.10 - 0.20	03/11/2025
32412889	GR03-SP305-D	ES	0.30 - 0.40	03/11/2025
32412891	GR03-SP305-D	ES	0.50 - 0.60	03/11/2025
32412893	GR03-SP305-E-S1	ES	0.00 - 0.10	03/11/2025
32412895	GR03-SP305-E-S1	WS	0.00 - 0.50	03/11/2025
32412898	GR03-SP305-E-S1	ES	0.30 - 0.40	03/11/2025
32412900	GR03-SP305-E-S1	ESA1	0.40 - 0.50	03/11/2025
32412902	GR03-SP305-E-S1	ESA2	0.40 - 0.50	03/11/2025
32412904	GR03-SP305-E-S2	ESA1	0.40 - 0.50	03/11/2025
32412908	GR03-SP305-E-S2	ESA2	0.40 - 0.50	03/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
	32412927		GR04-SP437-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412925		GR04-SP437-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32412885		GR03-SP305-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32412945		GR03-SP305-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412943		GR03-SP305-C	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
PFAS in soils	32412923		GR04-SP437-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32412921		GR04-SP437-B	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412919		GR04-SP437-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32412917		GR04-SP437-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32412915		GR04-SP437-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32412912		GR04-SP437-A	WS	0.00 - 0.50	50ml digitube (ALE001)	PW
PFAS Liquids (Full Suite)	32412938		GR03-SP305-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412936		GR03-SP305-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32412934		GR03-SP305-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32412932		GR03-SP305-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412930		GR03-SP305-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32412928		GR03-SP305-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
pH	32412926		GR03-SP305-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412924		GR03-SP305-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32412922		GR03-SP305-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32412920		GR03-SP305-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32412918		GR03-SP305-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412916		GR03-SP305-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
Sample description	32412914		GR03-SP305-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32412912		GR03-SP305-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32412910		GR04-SP437-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32412908		GR03-SP305-A	W	0.40 - 0.50	50ml digitube (ALE001)	PW
	32412906		GR03-SP305-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32412904		GR03-SP305-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
Total Organic Carbon	32412883		GR03-SP305-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32412881		GR03-SP305-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412879		GR03-SP305-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32412877		GR03-SP305-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32412875		GR03-SP305-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412873		GR03-SP305-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S

32412908	GR03-SP305-E-S2	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412904	GR03-SP305-E-S2	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412902	GR03-SP305-E-S1	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412900	GR03-SP305-E-S1	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412898	GR03-SP305-E-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412895	GR03-SP305-E-S1	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X					
32412893	GR03-SP305-E-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412891	GR03-SP305-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412889	GR03-SP305-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412887	GR03-SP305-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412931	GR04-SPA37-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine <0.063mm fine 0.063mm - 0.1mm medium 0.1mm - 2mm coarse 2mm - 10mm very coarse >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32412883	GR03-SP305-A	0.00 - 0.10	Dark Brown	Loamy Sand	Vegetation	None
32412906	GR03-SP305-A	0.20 - 0.30	Dark Brown	Silty Clay	Stones	Vegetation
32412929	GR03-SP305-A	0.40 - 0.50	Dark Brown	Silty Clay	Stones	Brick
32412910	GR04-SP437-A	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Vegetation	None
32412915	GR04-SP437-A	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Vegetation
32412917	GR04-SP437-A	0.40 - 0.50	Dark Brown	Silt Loam	Vegetation	None
32412936	GR03-SP305-B	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32412938	GR03-SP305-B	0.20 - 0.30	Dark Brown	Silty Clay	Stones	Vegetation
32412941	GR03-SP305-B	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Concrete/Aggregate
32412919	GR04-SP437-B	0.10 - 0.20	Light Brown	Loamy Sand	Stones	Vegetation
32412921	GR04-SP437-B	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32412923	GR04-SP437-B	0.50 - 0.60	Light Brown	Silty Clay	Vegetation	None
32412885	GR03-SP305-C	0.40 - 0.50	Dark Brown	Silty Clay	None	None
32412943	GR03-SP305-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	None
32412945	GR03-SP305-C	0.20 - 0.30	Dark Brown	Silty Clay	None	None
32412925	GR04-SP437-C	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	Stones
32412927	GR04-SP437-C	0.20 - 0.30	Dark Brown	Silty Clay Loam	Glass & Stones	Vegetation
32412931	GR04-SP437-C	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32412887	GR03-SP305-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32412889	GR03-SP305-D	0.30 - 0.40	Dark Brown	Silty Clay	Vegetation	Concrete/Aggregate
32412891	GR03-SP305-D	0.50 - 0.60	Dark Brown	Silty Clay	Vegetation	None
32412893	GR03-SP305-E-S1	0.00 - 0.10	Dark Brown	Loamy Sand	Stones	Vegetation
32412898	GR03-SP305-E-S1	0.30 - 0.40	Dark Brown	Silty Clay	Vegetation	None
32412900	GR03-SP305-E-S1	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None
32412902	GR03-SP305-E-S1	0.40 - 0.50	Dark Brown	Silty Clay	None	None
32412904	GR03-SP305-E-S2	0.40 - 0.50	Dark Brown	Silty Clay	Vegetation	None
32412908	GR03-SP305-E-S2	0.40 - 0.50	Grey	Silty Clay	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR04-SP437-A	GR04-SP437-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
diss.filt	Dissolved / filtered sample.				04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
tot.unfilt	Total / unfiltered sample.				251107-27	251107-27	251107-27	251107-27	251107-27	251107-27
Subcontracted - refer to subcontractor report for accreditation status.					32412883	32412906	32412929	32412933	32412910	32412912
% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	W	ES	WS
6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.01		<0.002
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.005		<0.001
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.025		<0.005
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.005		<0.001
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.005		<0.001
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.005		<0.001
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.015		<0.003
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.005		<0.001
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.005		<0.001
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.01		<0.002
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.005		<0.001
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.005		<0.001
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.005		<0.001
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.025		<0.005
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.005		<0.001
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.005		<0.001
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.005		<0.001
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00325		0.000716
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.005		<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.005		<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.005		<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.01		<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.025		<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.01		<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.01		<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.025		<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00325		<0.00065
Branched PFOS	<0.00065 µg/l	TM434						<0.00325		<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.01		<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.01		<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.005		<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.005		<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.005		<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR04-SP437-A	GR04-SP437-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
diss.filt	Dissolved / filtered sample.				04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
tot.unfilt	Total / unfiltered sample.				251107-27	251107-27	251107-27	251107-27	251107-27	251107-27
* Subcontracted - refer to subcontractor report for accreditation status.					32412883	32412906	32412929	32412933	32412910	32412912
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	W	ES	WS
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.01		<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.01		<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.015		<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.01		<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.01		<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.005		<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.01		<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.01		<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.005		<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.05		<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.005		<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.05		<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.005		<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.005		<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.05		<0.01
Total PFOS	<0.00065 µg/l	TM434						<0.00325		<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.45		<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.005		<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.005		<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			23	20	18		25	
Soil Organic Matter (SOM)	<0.35 %	TM132			4.93	1.43	0.972		6.88	
pH	1 pH Units	TM133			7.67	8.39	8.65		7.53	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			0.776	<0.5	<0.5		<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8		<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1		<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR04-SP437-A	GR04-SP437-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
diss.filt	Dissolved / filtered sample.				04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
tot.unfilt	Total / unfiltered sample.				251107-27	251107-27	251107-27	251107-27	251107-27	251107-27
* Subcontracted - refer to subcontractor report for accreditation status.					32412883	32412906	32412929	32412933	32412910	32412912
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	W	ES	WS
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.5	1.35	1.45		1.75	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10		<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFechS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9		<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4		<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			0.941	<0.6	<0.6		1.11	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4		<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7		<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP437-A	GR04-SP437-A	GR03-SP305-B	GR03-SP305-B	GR03-SP305-B	GR04-SP437-B
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units		Method	21	20	24	21	17	15
Moisture Content Ratio (% of as received sample)	%	PM024							
Soil Organic Matter (SOM)	<0.35 %	TM132	5.78	6.81	5.76	1.9	1.29	4.65	
pH	1 pH Units	TM133	7.97	8.17	8.17	8.26	8.8	7.89	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.03	4.03	1.73	0.75	1.69	0.666	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.53	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR04-SP437-B	GR04-SP437-B	GR03-SP305-C	GR03-SP305-C	GR03-SP305-C	GR04-SP437-C
# ISO17025 accredited.				0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	18	19	20	16	17	24	
Soil Organic Matter (SOM)	<0.35 %	TM132	5.97	1.68	3.1	0.479	0.498	7.79	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	8.21	8.07	8.62	7.99	7.62	7.4	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.36	2.29	5.38	5.21	4.67	1.97	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.08	<0.6	0.826	<0.6	<0.6	1.09	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP437-C	GR04-SP437-C	GR03-SP305-D	GR03-SP305-D	GR03-SP305-D	GR03-SP305-E-S1
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	24	20	21	18	17	21	
Soil Organic Matter (SOM)	<0.35 %	TM132	7.91	8.22	4.71	1.74	0.909	4.74	
pH	1 pH Units	TM133	7.51	7.64	7.6	8.46	8.22	7.58	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	0.764	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.79	4.32	0.908	0.723	1.44	1.23	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.23	0.83	<0.6	<0.6	<0.6	0.799	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S2	GR03-SP305-E-S2
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	M mCERTS accredited.	0.00 - 0.50 Process Water (PR) 03/11/2025	0.30 - 0.40 Soil/Solid (S) 03/11/2025	0.40 - 0.50 Soil/Solid (S) 03/11/2025	0.40 - 0.50 Soil/Solid (S) 03/11/2025	0.40 - 0.50 Soil/Solid (S) 03/11/2025	0.40 - 0.50 Soil/Solid (S) 03/11/2025	0.40 - 0.50 Soil/Solid (S) 03/11/2025	0.40 - 0.50 Soil/Solid (S) 03/11/2025
aq Aqueous / settled sample.										
diss.filt Dissolved / filtered sample.										
tot.unfilt Total / unfiltered sample.										
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002							
PFMOPra (377-73-1)	<0.001 µg/l	TM434	<0.001							
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005							
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001							
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001							
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001							
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003							
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001							
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002							
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001							
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001							
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005							
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001							
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001							
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065							
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001							
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001							
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005							
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065							
Branched PFOS	<0.00065 µg/l	TM434	<0.00065							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002							
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001							
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001							
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S2	GR03-SP305-E-S2
#	ISO17025 accredited.			0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.			04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
*	Subcontracted - refer to subcontractor report for accreditation status.			251107-27	251107-27	251107-27	251107-27	251107-27	251107-27
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32412895	32412898	32412900	32412902	32412904	32412908
***	6:2 FTAB (see appendix)			WS	ES	ESA1	ESA2	ESA1	ESA2
1-4*5@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002						
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002						
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003						
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002						
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002	@					
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001						
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002						
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002						
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001						
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01	@					
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001						
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01	@					
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001						
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001						
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01						
Total PFOS	<0.00065 µg/l	TM434	<0.00065						
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09						
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001						
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001	@					
Moisture Content Ratio (% of as received sample)	%	PM024		17	16	15	21	20	
Soil Organic Matter (SOM)	<0.35 %	TM132		0.667 #	0.879 #	0.495 #	0.715 #	1.26 #	
pH	1 pH Units	TM133		8.02 M	7.91 M	7.97 M	8.16 M	7.99 M	
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S2	GR03-SP305-E-S2
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
m mCERTS accredited.				Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
diss.filt Dissolved / filtered sample.				04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
tot.unfiltTotal / unfiltered sample.				251107-27	251107-27	251107-27	251107-27	251107-27	251107-27
* Subcontracted - refer to subcontractor report for accreditation status.				32412895	32412898	32412900	32412902	32412904	32412908
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				WS	ES	ESA1	ESA2	ESA1	ESA2
*** 6:2 FTAB (see appendix)									
1-4* @ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.37	1.81	2.04	1.14	0.955
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s)	32412883	32412906	32412929	32412933	32412910	32412912	32412915	32412917	32412936	32412938
Customer Sample Ref.	GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR03-SP305-A	GR04-SP437-A	GR04-SP437-A	GR04-SP437-A	GR04-SP437-A	GR03-SP305-B	GR03-SP305-B
AGS Ref.	ES	ES	ES	W	ES	WS	ES	ES	ES	ES
Depth	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	24-Nov-2025	18-Nov-2025	18-Nov-2025		17-Nov-2025		19-Nov-2025	17-Nov-2025	19-Nov-2025	19-Nov-2025
PFAS Liquids (Full Suite)				26-Nov-2025		20-Nov-2025				
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025		12-Nov-2025		12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	08-Nov-2025		08-Nov-2025		10-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	19-Nov-2025	18-Nov-2025	18-Nov-2025		19-Nov-2025		19-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025

Lab Sample No(s)	32412941	32412919	32412921	32412923	32412885	32412943	32412945	32412925	32412927	32412931
Customer Sample Ref.	GR03-SP305-B	GR04-SP437-B	GR04-SP437-B	GR04-SP437-B	GR03-SP305-C	GR03-SP305-C	GR03-SP305-C	GR04-SP437-C	GR04-SP437-C	GR04-SP437-C
AGS Ref.	ES	ES	ESALS	ES	ES	ESALS	ES	ES	ES	ES
Depth	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	19-Nov-2025	19-Nov-2025	17-Nov-2025	17-Nov-2025	19-Nov-2025	19-Nov-2025	24-Nov-2025	19-Nov-2025	17-Nov-2025	19-Nov-2025
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	10-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	18-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025

Lab Sample No(s)	32412887	32412889	32412891	32412893	32412895	32412898	32412900	32412902	32412904	32412908
Customer Sample Ref.	GR03-SP305-D	GR03-SP305-D	GR03-SP305-D	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S1	GR03-SP305-E-S2	GR03-SP305-E-S2
AGS Ref.	ES	ES	ES	ES	WS	ES	ESA1	ESA2	ESA1	ESA2
Depth	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	19-Nov-2025	17-Nov-2025	19-Nov-2025	18-Nov-2025		19-Nov-2025	24-Nov-2025	24-Nov-2025	17-Nov-2025	18-Nov-2025
PFAS Liquids (Full Suite)					20-Nov-2025					
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025		12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025		08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	19-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025		19-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	19-Nov-2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3287	QC 3230	QC 3202	QC 3297	QC 3262
10:2 FTS (Raw)	TM440	102.15 53.10 : 140.00	106.69 53.10 : 140.00	78.48 53.10 : 140.00	93.47 53.10 : 140.00	86.61 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	78.15 53.56 : 141.19	75.66 53.56 : 141.19	72.63 53.56 : 141.19	85.29 53.56 : 141.19	108.71 53.56 : 141.19
3:3 FTCA (Raw)	TM440	91.66 50.54 : 133.25	89.0 50.54 : 133.25	71.3 50.54 : 133.25	91.81 50.54 : 133.25	105.82 50.54 : 133.25
4:2 FTS (Raw)	TM440	83.38 56.34 : 145.91	76.91 56.34 : 145.91	70.24 56.34 : 145.91	94.63 56.34 : 145.91	103.53 56.34 : 145.91
5:3 FTCA (Raw)	TM440	87.23 52.66 : 130.08	89.67 52.66 : 130.08	66.99 52.66 : 130.08	94.67 52.66 : 130.08	96.75 52.66 : 130.08
6:2 FTAB (Raw)	TM440	43.88 38.50 : 101.50	47.25 38.50 : 101.50	27.58 38.50 : 101.50	33.02 38.50 : 101.50	37.72 38.50 : 101.50
6:2 FTS (Raw)	TM440	77.8 54.79 : 144.46	76.2 54.79 : 144.46	69.25 54.79 : 144.46	98.63 54.79 : 144.46	97.66 54.79 : 144.46
7:3 FTCA (Raw)	TM440	76.9 48.60 : 128.14	79.41 48.60 : 128.14	72.42 48.60 : 128.14	84.52 48.60 : 128.14	85.96 48.60 : 128.14
8:2 diPAP (Raw)	TM440	73.92 56.03 : 147.72	84.79 56.03 : 147.72	70.52 56.03 : 147.72	95.58 56.03 : 147.72	92.86 56.03 : 147.72
8:2 FTS (Raw)	TM440	76.87 55.74 : 146.96	73.79 55.74 : 146.96	74.22 55.74 : 146.96	87.93 55.74 : 146.96	98.61 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	71.69 54.59 : 143.91	72.13 54.59 : 143.91	64.95 54.59 : 143.91	92.69 54.59 : 143.91	102.02 54.59 : 143.91
ADONA (Raw)	TM440	79.35 54.01 : 132.33	71.45 54.01 : 132.33	60.7 54.01 : 132.33	94.91 54.01 : 132.33	107.12 54.01 : 132.33
Branched PFOS (Raw)	TM440	72.24 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	93.67 54.09 : 142.61	107.08 54.09 : 142.61
EtFOSAA (Raw)	TM440	81.53 52.48 : 138.36	78.31 52.48 : 138.36	65.34 52.48 : 138.36	92.62 52.48 : 138.36	100.39 52.48 : 138.36
EtFOSE (Raw)	TM440	78.29 57.05 : 145.29	78.18 57.05 : 145.29	64.0 57.05 : 145.29	89.02 57.05 : 145.29	110.73 57.05 : 145.29
FBSA (Raw)	TM440	76.13 49.51 : 125.13	82.43 49.51 : 125.13	65.58 49.51 : 125.13	87.42 49.51 : 125.13	90.6 49.51 : 125.13
FHxSA (Raw)	TM440	70.56 50.38 : 132.82	76.32 50.38 : 132.82	60.43 50.38 : 132.82	82.65 50.38 : 132.82	91.95 50.38 : 132.82
HFPO-DA (Raw)	TM440	77.71 53.47 : 140.98	75.28 53.47 : 140.98	62.92 53.47 : 140.98	87.19 53.47 : 140.98	96.5 53.47 : 140.98
HFPO-TA (Raw)	TM440	80.77 54.77 : 144.39	76.51 54.77 : 144.39	129.26 44.84 : 118.21	194.98 44.84 : 118.21	230.33 44.84 : 118.21
L-PFOS (Raw)	TM440	72.24 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	93.67 54.09 : 142.61	106.65 54.09 : 142.61
MeFOSAA (Raw)	TM440	81.49 53.02 : 139.78	77.5 53.02 : 139.78	64.64 53.02 : 139.78	76.97 53.02 : 139.78	93.57 53.02 : 139.78
MeFOSE (Raw)	TM440	78.34 54.99 : 144.97	76.58 54.99 : 144.97	61.66 54.99 : 144.97	87.99 54.99 : 144.97	101.6 54.99 : 144.97
N-EtFOSA (Raw)	TM440	83.47 59.56 : 132.93	75.95 59.56 : 132.93	66.88 59.56 : 132.93	87.56 59.56 : 132.93	99.48 59.56 : 132.93
NFDHA (Raw)	TM440	80.82 57.35 : 151.20	80.48 57.35 : 151.20	64.9 57.35 : 151.20	89.24 57.35 : 151.20	106.53 57.35 : 151.20
N-MeFOSA (Raw)	TM440	78.98 59.19 : 133.01	76.38 59.19 : 133.01	66.62 59.19 : 133.01	87.0 59.19 : 133.01	103.69 59.19 : 133.01
PFBA (Raw)	TM440	79.43 52.69 : 138.91	78.76 52.69 : 138.91	63.43 52.69 : 138.91	92.41 52.69 : 138.91	108.07 52.69 : 138.91



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
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Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

		QC 3287	QC 3230	QC 3202	QC 3297	QC 3262
PFBS (Raw)	TM440	74.41 53.31 : 140.54	73.23 53.31 : 140.54	63.31 53.31 : 140.54	87.86 53.31 : 140.54	97.46 53.31 : 140.54
PFDA (Raw)	TM440	85.47 53.39 : 140.76	82.77 53.39 : 140.76	72.95 53.39 : 140.76	88.99 53.39 : 140.76	107.77 53.39 : 140.76
PFDoA (Raw)	TM440	82.36 52.85 : 139.34	78.3 52.85 : 139.34	62.49 52.85 : 139.34	89.7 52.85 : 139.34	104.91 52.85 : 139.34
PFDoS (Raw)	TM440	72.37 55.29 : 145.76	71.12 55.29 : 145.76	69.63 55.29 : 145.76	84.54 55.29 : 145.76	102.4 55.29 : 145.76
PFDS (Raw)	TM440	75.17 52.94 : 139.56	71.38 52.94 : 139.56	65.93 52.94 : 139.56	92.12 52.94 : 139.56	105.89 52.94 : 139.56
PFecHS (Raw)	TM440	71.9 50.75 : 133.80	75.85 50.75 : 133.80	64.09 50.75 : 133.80	87.74 50.75 : 133.80	83.52 50.75 : 133.80
PFEESA (Raw)	TM440	73.18 50.87 : 134.12	86.6 50.87 : 134.12	67.03 50.87 : 134.12	87.58 50.87 : 134.12	105.54 50.87 : 134.12
PFHpA (Raw)	TM440	82.07 52.61 : 138.69	74.3 52.61 : 138.69	66.13 52.61 : 138.69	100.22 52.61 : 138.69	104.62 52.61 : 138.69
PFHpS (Raw)	TM440	73.65 55.29 : 145.76	75.22 55.29 : 145.76	69.12 55.29 : 145.76	91.4 55.29 : 145.76	116.68 55.29 : 145.76
PFHxA (Raw)	TM440	80.99 54.05 : 142.50	78.95 54.05 : 142.50	66.22 54.05 : 142.50	93.47 54.05 : 142.50	108.63 54.05 : 142.50
PFHxDA (Raw)	TM440	78.23 52.03 : 137.17	73.12 52.03 : 137.17	62.84 52.03 : 137.17	88.82 52.03 : 137.17	102.8 52.03 : 137.17
PFHxS (Raw)	TM440	78.15 53.56 : 141.19	80.54 53.56 : 141.19	63.78 53.56 : 141.19	88.86 53.56 : 141.19	86.38 53.56 : 141.19
PFMOBA (Raw)	TM440	77.89 52.73 : 139.02	76.04 52.73 : 139.02	66.35 52.73 : 139.02	90.27 52.73 : 139.02	105.05 52.73 : 139.02
PFMOPra (Raw)	TM440	79.0 52.57 : 138.58	105.8 52.57 : 138.58	66.11 52.57 : 138.58	92.62 52.57 : 138.58	116.05 52.57 : 138.58
PFNA (Raw)	TM440	79.88 52.94 : 139.56	79.06 52.94 : 139.56	67.58 52.94 : 139.56	91.65 52.94 : 139.56	105.71 52.94 : 139.56
PFNS (Raw)	TM440	77.07 54.38 : 143.37	74.37 54.38 : 143.37	63.73 54.38 : 143.37	94.87 54.38 : 143.37	110.27 54.38 : 143.37
PFOA (Raw)	TM440	79.66 53.80 : 141.85	81.33 53.80 : 141.85	67.93 53.80 : 141.85	97.78 53.80 : 141.85	105.28 53.80 : 141.85
PFODA (Raw)	TM440	71.57 56.03 : 147.72	73.47 56.03 : 147.72	57.6 56.03 : 147.72	80.37 56.03 : 147.72	80.24 56.03 : 147.72
PFOSA (Raw)	TM440	76.98 53.10 : 140.00	75.17 53.10 : 140.00	63.03 53.10 : 140.00	87.32 53.10 : 140.00	100.69 53.10 : 140.00
PFPA (Raw)	TM440	79.38 53.89 : 142.06	75.11 53.89 : 142.06	65.17 53.89 : 142.06	88.17 53.89 : 142.06	112.03 53.89 : 142.06
PFPeS (Raw)	TM440	78.63 54.30 : 143.15	82.92 54.30 : 143.15	64.68 54.30 : 143.15	88.78 54.30 : 143.15	92.97 54.30 : 143.15
PFTeA (Raw)	TM440	86.8 53.06 : 139.89	81.78 53.06 : 139.89	73.86 53.06 : 139.89	97.76 53.06 : 139.89	115.11 53.06 : 139.89
PFTrDA (Raw)	TM440	95.59 51.70 : 136.30	83.76 51.70 : 136.30	82.64 51.70 : 136.30	98.62 51.70 : 136.30	111.09 51.70 : 136.30
PFTrDS (Raw)	TM440	75.02 56.24 : 148.26	75.65 56.24 : 148.26	69.84 56.24 : 148.26	90.15 56.24 : 148.26	105.72 56.24 : 148.26
PFUnA (Raw)	TM440	76.88 53.35 : 140.65	77.93 53.35 : 140.65	74.59 53.35 : 140.65	92.16 53.35 : 140.65	110.34 53.35 : 140.65
PFUnDS (Raw)	TM440	70.48 53.60 : 141.30	72.63 53.60 : 141.30	71.59 53.60 : 141.30	90.57 53.60 : 141.30	101.37 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
Client Ref.: UK-70100310

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Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3284	QC 3257
11CI-PF3OUdS (763051-92-9)	TM434	115.3 62.16 : 138.51	123.79 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	101.93 89.89 : 130.69	133.19 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	94.67 66.54 : 140.56	115.91 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	90.52 60.34 : 133.39	97.79 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	86.14 59.12 : 129.56	83.31 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	98.4 67.48 : 129.58	118.39 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	105.37 79.83 : 133.08	116.09 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	94.77 81.70 : 132.18	113.73 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	111.78 71.98 : 136.03	135.96 71.98 : 136.03
ADONA (919005-14-4)	TM434	110.85 70.14 : 142.14	106.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	89.68 67.04 : 131.16	112.66 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	79.2 67.92 : 135.38	1150.82 67.92 : 135.38
FBSA (30334-69-1)	TM434	100.04 58.08 : 137.20	103.59 58.08 : 137.20
FHxSA (41997-13-1)	TM434	91.14 71.81 : 148.16	129.33 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	103.58 57.03 : 123.70	116.59 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	217.05 58.05 : 153.05	137.64 58.05 : 153.05
Linear PFOS (1763-23-1)	TM434	100.8 69.95 : 145.18	114.59 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	101.41 68.44 : 128.29	136.62 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	79.3 70.83 : 132.00	106.53 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	69.89 59.26 : 122.86	122.77 59.26 : 122.86
NFDHA (151772-58-6)	TM434	88.35 59.99 : 133.56	127.96 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	72.21 62.71 : 118.96	125.7 62.71 : 118.96
PFBA (375-22-4)	TM434	96.03 67.84 : 130.39	113.82 67.84 : 130.39
PFBS (375-73-5)	TM434	99.09 90.25 : 126.25	105.27 90.25 : 126.25
PFDA (335-76-2)	TM434	92.24 68.94 : 132.99	120.11 68.94 : 132.99
PFDaA (307-55-1)	TM434	92.52 66.19 : 135.04	120.98 66.19 : 135.04
PFDoS (79780-39-5)	TM434	122.99 65.90 : 146.45	121.56 65.90 : 146.45



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Superseded Report:

PFAS Liquids (Full Suite)

		QC 3284	QC 3257
PFDS (335-77-3)	TM434	129.23 64.84 : 138.49	129.32 64.84 : 138.49
PFecHS (646-83-3)	TM434		98.43 81.53 : 139.35
PFEESA (113507-82-7)	TM434	100.79 67.24 : 129.19	113.13 67.24 : 129.19
PFHpA (375-85-9)	TM434	103.64 72.89 : 141.36	114.88 72.89 : 141.36
PFHpS (375-92-8)	TM434	107.98 72.19 : 155.36	102.19 72.19 : 155.36
PFHxA (307-24-4)	TM434	95.97 71.79 : 135.84	116.86 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	99.43 89.96 : 128.14	123.17 89.96 : 128.14
PFHxS (355-46-4)	TM434	111.15 84.41 : 134.44	108.0 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	110.37 84.99 : 139.74	126.05 84.99 : 139.74
PFMOPra (377-73-1)	TM434	114.31 80.40 : 136.73	135.52 80.40 : 136.73
PFNA (375-95-1)	TM434	98.56 68.61 : 128.99	117.75 68.61 : 128.99
PFNS (68259-12-1)	TM434	102.48 70.70 : 130.93	137.58 70.70 : 130.93
PFOA (335-67-1)	TM434	99.18 74.09 : 143.61	121.58 74.09 : 143.61
PFODA (16517-11-6)	TM434	105.74 68.70 : 175.88	15.24 68.70 : 175.88
PFOSA (754-91-6)	TM434	88.56 67.59 : 130.51	118.15 67.59 : 130.51
PFPA (2706-90-3)	TM434	103.39 74.20 : 140.58	122.4 74.20 : 140.58
PFPeS (2706-91-4)	TM434	100.48 76.19 : 137.91	105.5 76.19 : 137.91
PFTeA (376-06-7)	TM434	103.2 66.36 : 144.96	138.5 66.36 : 144.96
PFTrDA (72629-94-8)	TM434	112.97 71.98 : 130.25	113.5 71.98 : 130.25
PFTrDS (791563-89-8)	TM434		122.64 68.38 : 157.48
PFUnA (2058-94-8)	TM434	99.35 65.55 : 141.45	127.11 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	114.35 85.84 : 139.76	119.9 85.84 : 139.76

pH

Component	Method Code	QC 3252	QC 3254	QC 3256	QC 3258	QC 3260	QC 3262
pH	TM133	99.45 95.29 : 105.24	100.37 95.29 : 105.24	99.72 95.29 : 105.24	99.36 95.29 : 105.24	99.89 95.29 : 105.24	99.61 95.29 : 105.24



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-27
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Report Number: 784114
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3267	QC 3226	QC 3245	QC 3247	QC 3255	QC 3257
Total Organic Carbon	TM132	96.9 93.61 : 106.00	97.85 93.61 : 106.00	96.45 93.61 : 106.00	95.97 93.61 : 106.00	96.69 93.61 : 106.00	96.04 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251107-27
Client Ref: UK-70100310

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Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 26 November 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251107-28
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 784119
Order Number: UK-70100310

This report has been revised and directly supersedes 783513 in its entirety.

We received 29 samples on Thursday November 06, 2025 and 29 of these samples were scheduled for analysis which was completed on Wednesday November 26, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32412958	GR04-SP416-A	ES	0.00 - 0.10	04/11/2025
32412995	GR04-SP416-A	ES	0.20 - 0.30	04/11/2025
32413039	GR04-SP416-A	ESALS	0.40 - 0.50	04/11/2025
32412998	GR04-SP427-A	ES	0.00 - 0.10	04/11/2025
32413001	GR04-SP427-A	ES	0.30 - 0.40	04/11/2025
32413006	GR04-SP427-A	ES	0.50 - 0.60	04/11/2025
32413010	GR04-SP427-A	WT	0.50 - 0.60	04/11/2025
32413043	GR04-SP416-B	ES	0.10 - 0.20	04/11/2025
32413047	GR04-SP416-B	WT	0.10 - 0.20	04/11/2025
32413052	GR04-SP416-B	ES	0.30 - 0.40	04/11/2025
32413056	GR04-SP416-B	ES	0.50 - 0.60	04/11/2025
32413016	GR04-SP427-B	ES	0.10 - 0.20	04/11/2025
32413020	GR04-SP427-B	ES	0.20 - 0.30	04/11/2025
32413023	GR04-SP427-B	ES	0.50 - 0.60	04/11/2025
32413027	GR04-SP427-C	ES	0.00 - 0.10	04/11/2025
32413031	GR04-SP427-C	ES	0.20 - 0.30	04/11/2025
32413035	GR04-SP427-C	ESALS	0.40 - 0.50	04/11/2025
32413060	GR04-SP416-C-S1	ES	0.00 - 0.10	04/11/2025
32413063	GR04-SP416-C-S1	ES	0.30 - 0.40	04/11/2025
32412962	GR04-SP416-C-S1	ESA1	0.40 - 0.50	04/11/2025
32412965	GR04-SP416-C-S1	ESA2	0.40 - 0.50	04/11/2025
32412968	GR04-SP416-C-S2	ESA1	0.40 - 0.50	04/11/2025
32412971	GR04-SP416-C-S2	ESA2	0.40 - 0.50	04/11/2025
32412974	GR04-SP416-D	ES	0.10 - 0.20	04/11/2025
32412977	GR04-SP416-D	ES	0.30 - 0.40	04/11/2025
32412980	GR04-SP416-D	ES	0.50 - 0.60	04/11/2025
32412984	GR04-SP416-E	ES	0.00 - 0.10	04/11/2025
32412988	GR04-SP416-E	ES	0.30 - 0.40	04/11/2025
32412992	GR04-SP416-E	ES	0.40 - 0.50	04/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
	32413063		GR04-SPA16-C-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32413060		GR04-SPA16-C-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32413035		GR04-SPA27-C	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
	32413031		GR04-SPA27-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32413027		GR04-SPA27-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
PFAS in soils	32413023		GR04-SPA27-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32413020		GR04-SPA27-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32413016		GR04-SPA27-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32413056		GR04-SPA16-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32413052		GR04-SPA16-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32413047		GR04-SPA16-B	WT	0.10 - 0.20	50ml digritube (ALE001)	PW
PFAS Liquids (Full Suite)	32413043		GR04-SPA16-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
	32413010		GR04-SPA27-A	WT	0.50 - 0.60	50ml digritube (ALE001)	PW
	32413006		GR04-SPA27-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
	32413001		GR04-SPA27-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
	32412998		GR04-SPA27-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	32413039		GR04-SPA16-A	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
pH	32412995		GR04-SPA16-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
	32412958		GR04-SPA16-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
	PFAS in soils		All	NDPs: 0 Tests: 27			
	PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 2			
	pH		All	NDPs: 0 Tests: 27			
	Sample description		All	NDPs: 0 Tests: 24			
Total Organic Carbon	Total Organic Carbon		All	NDPs: 0 Tests: 27			
	PFAS in soils		All	NDPs: 0 Tests: 27			
	PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 2			
	pH		All	NDPs: 0 Tests: 27			
	Sample description		All	NDPs: 0 Tests: 24			
	Total Organic Carbon		All	NDPs: 0 Tests: 27			

32412992	GR04-SP416-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412988	GR04-SP416-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412984	GR04-SP416-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412980	GR04-SP416-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412977	GR04-SP416-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412974	GR04-SP416-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412971	GR04-SP416-C-S2	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412968	GR04-SP416-C-S2	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412965	GR04-SP416-C-S1	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32412962	GR04-SP416-C-S1	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32412958	GR04-SP416-A	0.00 - 0.10	Light Brown	Silty Clay Loam	Stones	Vegetation
32412995	GR04-SP416-A	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32413039	GR04-SP416-A	0.40 - 0.50	Light Brown	Silty Clay Loam	Brick	Stones
32412998	GR04-SP427-A	0.00 - 0.10	Light Brown	Sandy Clay Loam	Stones	Vegetation
32413001	GR04-SP427-A	0.30 - 0.40	Light Brown	Silty Clay Loam	Vegetation	None
32413006	GR04-SP427-A	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32413043	GR04-SP416-B	0.10 - 0.20	Light Brown	Silty Clay Loam	Stones	Vegetation
32413052	GR04-SP416-B	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32413056	GR04-SP416-B	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32413016	GR04-SP427-B	0.10 - 0.20	Light Brown	Sandy Clay Loam	Stones	Vegetation
32413020	GR04-SP427-B	0.20 - 0.30	Light Brown	Silty Clay Loam	Brick	Stones
32413023	GR04-SP427-B	0.50 - 0.60	Light Brown	Sandy Clay	Vegetation	None
32413027	GR04-SP427-C	0.00 - 0.10	Dark Brown	Silt Loam	Vegetation	Stones
32413031	GR04-SP427-C	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32413035	GR04-SP427-C	0.40 - 0.50	Light Brown	Silty Clay	Vegetation	None
32412962	GR04-SP416-C-S1	0.40 - 0.50	Light Brown	Silty Clay Loam	Tile/Insulation Board	Vegetation
32412965	GR04-SP416-C-S1	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32413060	GR04-SP416-C-S1	0.00 - 0.10	Light Brown	Silt Loam	Stones	Vegetation
32413063	GR04-SP416-C-S1	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32412968	GR04-SP416-C-S2	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32412971	GR04-SP416-C-S2	0.40 - 0.50	Light Brown	Sandy Silt Loam	Stones	Vegetation
32412974	GR04-SP416-D	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Vegetation	Stones
32412977	GR04-SP416-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32412980	GR04-SP416-D	0.50 - 0.60	Light Brown	Sandy Silt Loam	Vegetation	Stones
32412984	GR04-SP416-E	0.00 - 0.10	Light Brown	Clay Loam	Stones	Vegetation
32412988	GR04-SP416-E	0.30 - 0.40	Light Brown	Silt Loam	Stones	Vegetation
32412992	GR04-SP416-E	0.40 - 0.50	Light Brown	Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.		GR04-SP416-A	GR04-SP416-A	GR04-SP416-A	GR04-SP427-A	GR04-SP427-A	GR04-SP427-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.50 - 0.60
M mCERTS accredited.					Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.					04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
diss.filt Dissolved / filtered sample.					06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
tot.unfiltTotal / unfiltered sample.					251107-28	251107-28	251107-28	251107-28	251107-28	251107-28
* Subcontracted - refer to subcontractor report for accreditation status.					32412958	32412995	32413039	32412998	32413001	32413006
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			34	30	22	22	20	17
Soil Organic Matter (SOM)	<0.35 %	TM132			5.84	4	2.6	3.6	2.03	0.645
					#	#	#	#	#	#
pH	1 pH Units	TM133			5.53	6.37	6.32	6.32	6.25	6.53
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			8.07	5.13	5.05	1.89	2.51	2.08
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	1.06	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.		GR04-SP427-A	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP427-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Process Water (PR) 04/11/2025	0.10 - 0.20 Soil/Solid (S) 04/11/2025	0.10 - 0.20 Process Water (PR) 04/11/2025	0.30 - 0.40 Soil/Solid (S) 04/11/2025	0.50 - 0.60 Soil/Solid (S) 04/11/2025	0.10 - 0.20 Soil/Solid (S) 04/11/2025	
M	mCERTS accredited.										
aq	Aqueous / settled sample.										
diss.filt	Dissolved / filtered sample.										
tot.unfilt	Total / unfiltered sample.										
* Subcontracted - refer to subcontractor report for accreditation status.											
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery											
*** 6.2 FTAB (see appendix)											
1-4*§@ Sample deviation (see appendix)											
Component	LOD/Units	Method									
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002		<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434			<0.001		<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005		<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001		<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001		<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001		<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003		<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001		<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001		<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002		<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001		<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001		<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001		<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005		<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001		<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001		<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001		<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065		<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001		<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001		<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001		<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002		<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005		<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002		<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002		<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005		<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065		<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065		<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002		<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002		<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001		<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001		<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001		<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.		GR04-SP427-A	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP427-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Process Water (PR) 04/11/2025	0.10 - 0.20 Soil/Solid (S) 04/11/2025	0.10 - 0.20 Process Water (PR) 04/11/2025	0.30 - 0.40 Soil/Solid (S) 04/11/2025	0.50 - 0.60 Soil/Solid (S) 04/11/2025	0.10 - 0.20 Soil/Solid (S) 04/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					06/11/2025 251107-28 32413010 WT	06/11/2025 251107-28 32413043 ES	06/11/2025 251107-28 32413047 WT	06/11/2025 251107-28 32413052 ES	06/11/2025 251107-28 32413056 ES	06/11/2025 251107-28 32413016 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002		<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002		<0.002			
PFTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003		<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002		<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002		<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001		<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002		<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002		<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434			<0.001		<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01		<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434			<0.001		<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01		<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001		<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434			<0.001		<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01		<0.01			
Total PFOS	<0.00065 µg/l	TM434			<0.00065		<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434			<0.09		<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001		<0.001			
PFTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001		<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024				25		20	23	21
Soil Organic Matter (SOM)	<0.35 %	TM132				4.69		3.28	2.07	4.52
pH	1 pH Units	TM133				5.31		5.84	6.14	6.66
PFBA (375-22-4)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440				<0.8		<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440				<1.8		<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440				<1		<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.	GR04-SP427-A	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B	GR04-SP427-B
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Process Water (PR) 04/11/2025	0.10 - 0.20 Soil/Solid (S) 04/11/2025	0.10 - 0.20 Process Water (PR) 04/11/2025	0.30 - 0.40 Soil/Solid (S) 04/11/2025	0.50 - 0.60 Soil/Solid (S) 04/11/2025	0.10 - 0.20 Soil/Solid (S) 04/11/2025
m mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.				06/11/2025 251107-28 32413010 WT	06/11/2025 251107-28 32413043 ES	06/11/2025 251107-28 32413047 WT	06/11/2025 251107-28 32413052 ES	06/11/2025 251107-28 32413056 ES	06/11/2025 251107-28 32413016 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.5		8.03	7.4	0.903
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	1.09
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.		GR04-SP427-B	GR04-SP427-B	GR04-SP427-C	GR04-SP427-C	GR04-SP427-C	GR04-SP416-C-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025
diss.filt	Dissolved / filtered sample.				06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
tot.unfilt	Total / unfiltered sample.				251107-28	251107-28	251107-28	251107-28	251107-28	251107-28
Subcontracted - refer to subcontractor report for accreditation status.					32413020	32413023	32413027	32413031	32413035	32413060
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ESALS	ES
*** 6.2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			22	18	24	20	18	20
Soil Organic Matter (SOM)	<0.35 %	TM132			3.76	1.05	4.21	2.67	1.11	3.91
pH	1 pH Units	TM133			6.27	6.73	7.27	7.42	7.53	5.48
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			0.932	1.34	0.685	0.805	0.738	12.2
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			1.35	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.	GR04-SP416-C-S1	GR04-SP416-C-S1	GR04-SP416-C-S1	GR04-SP416-C-S2	GR04-SP416-C-S2	GR04-SP416-D
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)	6:2 FTAB deviation (see appendix)								
1-4**@									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	29	20	21	23	26	23	
Soil Organic Matter (SOM)	<0.35 %	TM132	2.76	2.52	2.6	2.17	2.76	5.05	
pH	1 pH Units	TM133	6.3	6.26	5.95	6.22	6.34	5.6	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	12.2	13.5	16.6	5.14	10.8	17.2	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	1.2	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Results Legend			Customer Sample Ref.	GR04-SP416-D	GR04-SP416-D	GR04-SP416-E	GR04-SP416-E	GR04-SP416-E	
# ISO17025 accredited.	M mCERTS accredited.								
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
	Depth (m)	0.30 - 0.40							
	Sample Type	Soil/Solid (S)							
	Date Sampled	04/11/2025							
	Sample Time								
	Date Received	06/11/2025							
	SDG Ref	251107-28							
	Lab Sample No.(s)	32412977							
	AGS Reference	ES							
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	21	19	24	20	22		
Soil Organic Matter (SOM)	<0.35 %	TM132	2.52	1.27	5.29	2.31	2.47		
			#	#	#	#	#		
pH	1 pH Units	TM133	6.22	6.44	5.85	6.93	6.86		
			M	M	M	M	M		
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440	10.3	6.09	4.4	7.21	5.95		
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	0.871	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28

Report Number: 784119

Superseded Report: 783513

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32412958	32412995	32413039	32412998	32413001	32413006	32413010	32413043	32413047	32413052
	GR04-SP416-A	GR04-SP416-A	GR04-SP416-A	GR04-SP427-A	GR04-SP427-A	GR04-SP427-A	GR04-SP427-A	GR04-SP416-B	GR04-SP416-B	GR04-SP416-B
	AGS Ref.	ES	ES	ESALS	ES	ES	ES	WT	ES	WT
	Depth	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	19-Nov-2025	19-Nov-2025		18-Nov-2025		18-Nov-2025
PFAS Liquids (Full Suite)							26-Nov-2025		20-Nov-2025	
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		12-Nov-2025		12-Nov-2025
Sample description	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025		11-Nov-2025		11-Nov-2025
Total Organic Carbon	18-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025		19-Nov-2025		19-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32413056	32413016	32413020	32413023	32413027	32413031	32413035	32412962	32412965	32413060
	GR04-SP416-B	GR04-SP427-B	GR04-SP427-B	GR04-SP427-B	GR04-SP427-C	GR04-SP427-C	GR04-SP427-C	GR04-SP416-C-S1	GR04-SP416-C-S1	GR04-SP416-C-S1
	AGS Ref.	ES	ES	ES	ES	ES	ES	ESALS	ESA1	ESA2
	Depth	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	18-Nov-2025	19-Nov-2025	19-Nov-2025	17-Nov-2025	17-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	17-Nov-2025
pH	12-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Total Organic Carbon	19-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	19-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32413063	32412968	32412971	32412974	32412977	32412980	32412984	32412988	32412992	
	GR04-SP416-C-S1	GR04-SP416-C-S2	GR04-SP416-C-S2	GR04-SP416-D	GR04-SP416-D	GR04-SP416-D	GR04-SP416-E	GR04-SP416-E	GR04-SP416-E	
	AGS Ref.	ES	ESA1	ESA2	ES	ES	ES	ES	ES	
	Depth	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
PFAS in soils	18-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	
Sample description	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	10-Nov-2025	11-Nov-2025	10-Nov-2025	
Total Organic Carbon	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	17-Nov-2025	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3239	QC 3287	QC 3230	QC 3202	QC 3297
10:2 FTS (Raw)	TM440	70.95 53.10 : 140.00	102.15 53.10 : 140.00	106.69 53.10 : 140.00	78.48 53.10 : 140.00	93.47 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	78.98 53.56 : 141.19	78.15 53.56 : 141.19	75.66 53.56 : 141.19	72.63 53.56 : 141.19	85.29 53.56 : 141.19
3:3 FTCA (Raw)	TM440	74.9 50.54 : 133.25	91.66 50.54 : 133.25	89.0 50.54 : 133.25	71.3 50.54 : 133.25	91.81 50.54 : 133.25
4:2 FTS (Raw)	TM440	84.44 56.34 : 145.91	83.38 56.34 : 145.91	76.91 56.34 : 145.91	70.24 56.34 : 145.91	94.63 56.34 : 145.91
5:3 FTCA (Raw)	TM440	84.8 52.66 : 130.08	87.23 52.66 : 130.08	89.67 52.66 : 130.08	66.99 52.66 : 130.08	94.67 52.66 : 130.08
6:2 FTAB (Raw)	TM440	17.43 38.50 : 101.50	43.88 38.50 : 101.50	47.25 38.50 : 101.50	27.58 38.50 : 101.50	33.02 38.50 : 101.50
6:2 FTS (Raw)	TM440	77.28 54.79 : 144.46	77.8 54.79 : 144.46	76.2 54.79 : 144.46	69.25 54.79 : 144.46	98.63 54.79 : 144.46
7:3 FTCA (Raw)	TM440	75.34 48.60 : 128.14	76.9 48.60 : 128.14	79.41 48.60 : 128.14	72.42 48.60 : 128.14	84.52 48.60 : 128.14
8:2 diPAP (Raw)	TM440	79.47 56.03 : 147.72	73.92 56.03 : 147.72	84.79 56.03 : 147.72	70.52 56.03 : 147.72	95.58 56.03 : 147.72
8:2 FTS (Raw)	TM440	80.13 55.74 : 146.96	76.87 55.74 : 146.96	73.79 55.74 : 146.96	74.22 55.74 : 146.96	87.93 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	78.72 54.59 : 143.91	71.69 54.59 : 143.91	72.13 54.59 : 143.91	64.95 54.59 : 143.91	92.69 54.59 : 143.91
ADONA (Raw)	TM440	75.2 54.01 : 132.33	79.35 54.01 : 132.33	71.45 54.01 : 132.33	60.7 54.01 : 132.33	94.91 54.01 : 132.33
Branched PFOS (Raw)	TM440	84.99 54.09 : 142.61	72.24 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	93.67 54.09 : 142.61
EtFOSAA (Raw)	TM440	74.92 52.48 : 138.36	81.53 52.48 : 138.36	78.31 52.48 : 138.36	65.34 52.48 : 138.36	92.62 52.48 : 138.36
EtFOSE (Raw)	TM440	78.24 57.05 : 145.29	78.29 57.05 : 145.29	78.18 57.05 : 145.29	64.0 57.05 : 145.29	89.02 57.05 : 145.29
FBSA (Raw)	TM440	76.89 49.51 : 125.13	76.13 49.51 : 125.13	82.43 49.51 : 125.13	65.58 49.51 : 125.13	87.42 49.51 : 125.13
FHxSA (Raw)	TM440	72.18 50.38 : 132.82	70.56 50.38 : 132.82	76.32 50.38 : 132.82	60.43 50.38 : 132.82	82.65 50.38 : 132.82
HFPO-DA (Raw)	TM440	75.48 53.47 : 140.98	77.71 53.47 : 140.98	75.28 53.47 : 140.98	62.92 53.47 : 140.98	87.19 53.47 : 140.98
HFPO-TA (Raw)	TM440	86.28 54.77 : 144.39	80.77 54.77 : 144.39	76.51 54.77 : 144.39	129.26 44.84 : 118.21	194.98 44.84 : 118.21
L-PFOS (Raw)	TM440	85.16 54.09 : 142.61	72.24 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	93.67 54.09 : 142.61
MeFOSAA (Raw)	TM440	73.56 53.02 : 139.78	81.49 53.02 : 139.78	77.5 53.02 : 139.78	64.64 53.02 : 139.78	76.97 53.02 : 139.78
MeFOSE (Raw)	TM440	76.59 54.99 : 144.97	78.34 54.99 : 144.97	76.58 54.99 : 144.97	61.66 54.99 : 144.97	87.99 54.99 : 144.97
N-EtFOSA (Raw)	TM440	75.32 59.56 : 132.93	83.47 59.56 : 132.93	75.95 59.56 : 132.93	66.88 59.56 : 132.93	87.56 59.56 : 132.93
NFDHA (Raw)	TM440	80.35 57.35 : 151.20	80.82 57.35 : 151.20	80.48 57.35 : 151.20	64.9 57.35 : 151.20	89.24 57.35 : 151.20
N-MeFOSA (Raw)	TM440	71.69 59.19 : 133.01	78.98 59.19 : 133.01	76.38 59.19 : 133.01	66.62 59.19 : 133.01	87.0 59.19 : 133.01
PFBA (Raw)	TM440	81.21 52.69 : 138.91	79.43 52.69 : 138.91	78.76 52.69 : 138.91	63.43 52.69 : 138.91	92.41 52.69 : 138.91



CERTIFICATE OF ANALYSIS

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Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

PFAS in soils

		QC 3239	QC 3287	QC 3230	QC 3202	QC 3297
PFBS (Raw)	TM440	77.99 53.31 : 140.54	74.41 53.31 : 140.54	73.23 53.31 : 140.54	63.31 53.31 : 140.54	87.86 53.31 : 140.54
PFDA (Raw)	TM440	81.23 53.39 : 140.76	85.47 53.39 : 140.76	82.77 53.39 : 140.76	72.95 53.39 : 140.76	88.99 53.39 : 140.76
PFDoA (Raw)	TM440	72.69 52.85 : 139.34	82.36 52.85 : 139.34	78.3 52.85 : 139.34	62.49 52.85 : 139.34	89.7 52.85 : 139.34
PFDoS (Raw)	TM440	73.59 55.29 : 145.76	72.37 55.29 : 145.76	71.12 55.29 : 145.76	69.63 55.29 : 145.76	84.54 55.29 : 145.76
PFDS (Raw)	TM440	80.99 52.94 : 139.56	75.17 52.94 : 139.56	71.38 52.94 : 139.56	65.93 52.94 : 139.56	92.12 52.94 : 139.56
PFecHS (Raw)	TM440	71.47 50.75 : 133.80	71.9 50.75 : 133.80	75.85 50.75 : 133.80	64.09 50.75 : 133.80	87.74 50.75 : 133.80
PFEESA (Raw)	TM440	70.42 50.87 : 134.12	73.18 50.87 : 134.12	86.6 50.87 : 134.12	67.03 50.87 : 134.12	87.58 50.87 : 134.12
PFHpA (Raw)	TM440	75.62 52.61 : 138.69	82.07 52.61 : 138.69	74.3 52.61 : 138.69	66.13 52.61 : 138.69	100.22 52.61 : 138.69
PFHpS (Raw)	TM440	75.07 55.29 : 145.76	73.65 55.29 : 145.76	75.22 55.29 : 145.76	69.12 55.29 : 145.76	91.4 55.29 : 145.76
PFHxA (Raw)	TM440	79.34 54.05 : 142.50	80.99 54.05 : 142.50	78.95 54.05 : 142.50	66.22 54.05 : 142.50	93.47 54.05 : 142.50
PFHxDA (Raw)	TM440	77.03 52.03 : 137.17	78.23 52.03 : 137.17	73.12 52.03 : 137.17	62.84 52.03 : 137.17	88.82 52.03 : 137.17
PFHxS (Raw)	TM440	75.57 53.56 : 141.19	78.15 53.56 : 141.19	80.54 53.56 : 141.19	63.78 53.56 : 141.19	88.86 53.56 : 141.19
PFMOBA (Raw)	TM440	79.24 52.73 : 139.02	77.89 52.73 : 139.02	76.04 52.73 : 139.02	66.35 52.73 : 139.02	90.27 52.73 : 139.02
PFMOPra (Raw)	TM440	82.18 52.57 : 138.58	79.0 52.57 : 138.58	105.8 52.57 : 138.58	66.11 52.57 : 138.58	92.62 52.57 : 138.58
PFNA (Raw)	TM440	72.32 52.94 : 139.56	79.88 52.94 : 139.56	79.06 52.94 : 139.56	67.58 52.94 : 139.56	91.65 52.94 : 139.56
PFNS (Raw)	TM440	82.15 54.38 : 143.37	77.07 54.38 : 143.37	74.37 54.38 : 143.37	63.73 54.38 : 143.37	94.87 54.38 : 143.37
PFOA (Raw)	TM440	80.53 53.80 : 141.85	79.66 53.80 : 141.85	81.33 53.80 : 141.85	67.93 53.80 : 141.85	97.78 53.80 : 141.85
PFODA (Raw)	TM440	72.87 56.03 : 147.72	71.57 56.03 : 147.72	73.47 56.03 : 147.72	57.6 56.03 : 147.72	80.37 56.03 : 147.72
PFOSA (Raw)	TM440	75.62 53.10 : 140.00	76.98 53.10 : 140.00	75.17 53.10 : 140.00	63.03 53.10 : 140.00	87.32 53.10 : 140.00
PFFPA (Raw)	TM440	78.36 53.89 : 142.06	79.38 53.89 : 142.06	75.11 53.89 : 142.06	65.17 53.89 : 142.06	88.17 53.89 : 142.06
PFPeS (Raw)	TM440	69.99 54.30 : 143.15	78.63 54.30 : 143.15	82.92 54.30 : 143.15	64.68 54.30 : 143.15	88.78 54.30 : 143.15
PFTeA (Raw)	TM440	82.98 53.06 : 139.89	86.8 53.06 : 139.89	81.78 53.06 : 139.89	73.86 53.06 : 139.89	97.76 53.06 : 139.89
PFTrDA (Raw)	TM440	87.87 51.70 : 136.30	95.59 51.70 : 136.30	83.76 51.70 : 136.30	82.64 51.70 : 136.30	98.62 51.70 : 136.30
PFTrDS (Raw)	TM440	76.88 56.24 : 148.26	75.02 56.24 : 148.26	75.65 56.24 : 148.26	69.84 56.24 : 148.26	90.15 56.24 : 148.26
PFUnA (Raw)	TM440	77.89 53.35 : 140.65	76.88 53.35 : 140.65	77.93 53.35 : 140.65	74.59 53.35 : 140.65	92.16 53.35 : 140.65
PFUnDS (Raw)	TM440	69.15 53.60 : 141.30	70.48 53.60 : 141.30	72.63 53.60 : 141.30	71.59 53.60 : 141.30	90.57 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

PFAS Liquids (Full Suite)

Component	Method Code	QC 3284	QC 3244
11CI-PF3OUdS (763051-92-9)	TM434	115.3 62.16 : 138.51	115.14 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	101.93 89.89 : 130.69	91.02 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	94.67 66.54 : 140.56	100.2 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	90.52 60.34 : 133.39	82.9 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	86.14 59.12 : 129.56	72.81 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	98.4 67.48 : 129.58	108.33 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	105.37 79.83 : 133.08	91.96 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	94.77 81.70 : 132.18	96.46 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	111.78 71.98 : 136.03	98.59 69.20 : 147.13
ADONA (919005-14-4)	TM434	110.85 70.14 : 142.14	95.99 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	89.68 67.04 : 131.16	103.72 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	79.2 67.92 : 135.38	1078.33 67.47 : 136.89
FBSA (30334-69-1)	TM434	100.04 58.08 : 137.20	91.38 63.70 : 143.28
FHxSA (41997-13-1)	TM434	91.14 71.81 : 148.16	106.42 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	103.58 57.03 : 123.70	91.21 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	217.05 58.05 : 153.05	103.18 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	100.8 69.95 : 145.18	106.17 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	101.41 68.44 : 128.29	91.38 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	79.3 70.83 : 132.00	103.01 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	69.89 59.26 : 122.86	102.77 57.83 : 132.08
NFDHA (151772-58-6)	TM434	88.35 59.99 : 133.56	107.04 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	72.21 62.71 : 118.96	107.5 61.69 : 135.49
PFBA (375-22-4)	TM434	96.03 67.84 : 130.39	105.04 74.68 : 133.63
PFBS (375-73-5)	TM434	99.09 90.25 : 126.25	95.32 74.09 : 133.79
PFDA (335-76-2)	TM434	92.24 68.94 : 132.99	103.28 72.39 : 135.76
PFDaA (307-55-1)	TM434	92.52 66.19 : 135.04	93.56 58.06 : 148.21
PFDoS (79780-39-5)	TM434	122.99 65.90 : 146.45	124.33 74.76 : 130.94



CERTIFICATE OF ANALYSIS

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Report Number: 784119
Location: Thornton Phase 3

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PFAS Liquids (Full Suite)

		QC 3284	QC 3244
PFDS (335-77-3)	TM434	129.23 64.84 : 138.49	115.26 58.61 : 140.44
PFecHS (646-83-3)	TM434		91.95 76.93 : 133.25
PFEESA (113507-82-7)	TM434	100.79 67.24 : 129.19	92.01 62.25 : 138.08
PFHpA (375-85-9)	TM434	103.64 72.89 : 141.36	97.48 75.71 : 136.46
PFHpS (375-92-8)	TM434	107.98 72.19 : 155.36	107.84 76.13 : 132.38
PFHxA (307-24-4)	TM434	95.97 71.79 : 135.84	98.85 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	99.43 89.96 : 128.14	98.85 71.24 : 136.49
PFHxS (355-46-4)	TM434	111.15 84.41 : 134.44	102.47 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	110.37 84.99 : 139.74	99.46 76.41 : 130.26
PFMOPra (377-73-1)	TM434	114.31 80.40 : 136.73	104.68 65.74 : 128.74
PFNA (375-95-1)	TM434	98.56 68.61 : 128.99	109.94 75.01 : 133.06
PFNS (68259-12-1)	TM434	102.48 70.70 : 130.93	108.46 74.74 : 129.26
PFOA (335-67-1)	TM434	99.18 74.09 : 143.61	97.54 74.76 : 136.11
PFODA (16517-11-6)	TM434	105.74 68.70 : 175.88	9.6 53.58 : 141.25
PFOSA (754-91-6)	TM434	88.56 67.59 : 130.51	97.96 76.54 : 135.04
PFPA (2706-90-3)	TM434	103.39 74.20 : 140.58	93.66 77.89 : 134.66
PFPeS (2706-91-4)	TM434	100.48 76.19 : 137.91	109.8 69.49 : 132.71
PFTeA (376-06-7)	TM434	103.2 66.36 : 144.96	97.2 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	112.97 71.98 : 130.25	81.11 67.04 : 136.04
PFTTrDS (791563-89-8)	TM434		124.92 76.88 : 133.35
PFUnA (2058-94-8)	TM434	99.35 65.55 : 141.45	100.55 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	114.35 85.84 : 139.76	124.96 71.45 : 127.25

pH

Component	Method Code	QC 3252	QC 3258	QC 3260	QC 3242	QC 3244	QC 3246
pH	TM133	99.45 95.29 : 105.24	99.36 95.29 : 105.24	99.89 95.29 : 105.24	98.31 95.29 : 105.24	99.63 95.29 : 105.24	99.48 95.29 : 105.24



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-28
Client Ref.: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Total Organic Carbon

Component	Method Code	QC 3282	QC 3267	QC 3294	QC 3216	QC 3245	QC 3247
Total Organic Carbon	TM132	95.5 93.61 : 106.00	96.9 93.61 : 106.00	97.04 93.61 : 106.00	96.98 93.61 : 106.00	96.45 93.61 : 106.00	95.97 93.61 : 106.00

Component	Method Code	QC 3255
Total Organic Carbon	TM132	96.69 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251107-28
Client Ref: UK-70100310

Report Number: 784119
Location: Thornton Phase 3

Superseded Report: 783513

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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email: hawardencustomerservices@alsglobal.com
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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 26 November 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251107-41
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 784125
Order Number: UK-70100310

This report has been revised and directly supersedes 783955 in its entirety.

We received 35 samples on Friday November 07, 2025 and 35 of these samples were scheduled for analysis which was completed on Wednesday November 26, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32414827	GR04-SP406-A	ES	0.00 - 0.10	05/11/2025
32414855	GR04-SP406-A	ES	0.30 - 0.40	05/11/2025
32414886	GR04-SP406-A	ESALS	0.40 - 0.50	05/11/2025
32414844	GR04-SP420-A	ES	0.10 - 0.20	05/11/2025
32414847	GR04-SP420-A	WT	0.10 - 0.20	05/11/2025
32414850	GR04-SP420-A	ESALS	0.30 - 0.40	05/11/2025
32414852	GR04-SP420-A	ES	0.50 - 0.60	05/11/2025
32414869	GR04-SP429-A	WS	0.00 - 0.60	05/11/2025
32414874	GR04-SP429-A	ES	0.10 - 0.20	05/11/2025
32414876	GR04-SP429-A	ES	0.30 - 0.40	05/11/2025
32414882	GR04-SP429-A	ES	0.50 - 0.60	05/11/2025
32414857	GR04-SP420-B	ES	0.00 - 0.10	05/11/2025
32414859	GR04-SP420-B	ES	0.30 - 0.40	05/11/2025
32414861	GR04-SP420-B	ES	0.40 - 0.50	05/11/2025
32414889	GR04-SP429-B	ES	0.00 - 0.10	05/11/2025
32414892	GR04-SP429-B	ESALS	0.30 - 0.40	05/11/2025
32414895	GR04-SP429-B	ES	0.40 - 0.50	05/11/2025
32414907	GR04-SP406-B-S1	ES	0.10 - 0.20	05/11/2025
32414909	GR04-SP406-B-S1	ESA1	0.20 - 0.30	05/11/2025
32414911	GR04-SP406-B-S1	ESA2	0.20 - 0.30	05/11/2025
32414914	GR04-SP406-B-S1	ES	0.50 - 0.60	05/11/2025
32414916	GR04-SP406-B-S2	ESA1	0.20 - 0.30	05/11/2025
32414918	GR04-SP406-B-S2	ESA2	0.20 - 0.30	05/11/2025
32414863	GR04-SP420-C	ES	0.10 - 0.20	05/11/2025
32414865	GR04-SP420-C	ES	0.20 - 0.30	05/11/2025
32414867	GR04-SP420-C	ES	0.50 - 0.60	05/11/2025
32414899	GR04-SP429-C	ES	0.10 - 0.20	05/11/2025
32414901	GR04-SP429-C	ES	0.20 - 0.30	05/11/2025
32414904	GR04-SP429-C	ES	0.50 - 0.60	05/11/2025
32414829	GR04-SP406-D	ES	0.10 - 0.20	05/11/2025
32414831	GR04-SP406-D	ES	0.30 - 0.40	05/11/2025
32414833	GR04-SP406-D	ES	0.50 - 0.60	05/11/2025
32414835	GR04-SP406-E	ES	0.00 - 0.10	05/11/2025
32414837	GR04-SP406-E	ES	0.30 - 0.40	05/11/2025
32414840	GR04-SP406-E	ES	0.40 - 0.50	05/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32414909	GR04-SP406-B-S1	ESAI	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32414907	GR04-SP406-B-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32414895	GR04-SP429-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32414892	GR04-SP429-B	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32414889	GR04-SP429-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32414861	GR04-SP420-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32414859	GR04-SP420-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32414857	GR04-SP420-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32414882	GR04-SP429-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32414876	GR04-SP429-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32414874	GR04-SP429-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32414869	GR04-SP429-A	WS	0.00 - 0.60	50ml digitube (ALE001)	PW						
	32414852	GR04-SP420-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32414850	GR04-SP420-A	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32414847	GR04-SP420-A	WT	0.10 - 0.20	50ml digitube (ALE001)	PW						
	32414844	GR04-SP420-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32414886	GR04-SP406-A	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32414855	GR04-SP406-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32414827	GR04-SP406-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 2									
pH		All	NDPs: 0 Tests: 33									
Sample description		All	NDPs: 0 Tests: 29									
Total Organic Carbon		All	NDPs: 0 Tests: 33									

32414840	GR04-SP406-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X			X
32414837	GR04-SP406-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X
32414835	GR04-SP406-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X			X
32414833	GR04-SP406-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X
32414831	GR04-SP406-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X			X
32414829	GR04-SP406-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X
32414904	GR04-SP429-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X
32414901	GR04-SP429-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X
32414899	GR04-SP429-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X
32414867	GR04-SP420-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X
32414865	GR04-SP420-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X
32414863	GR04-SP420-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X			X
32414918	GR04-SP406-B-S2	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X
32414916	GR04-SP406-B-S2	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X
32414914	GR04-SP406-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X			X
32414911	GR04-SP406-B-S1	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X			X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32414827	GR04-SP406-A	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	Crushed Brick
32414855	GR04-SP406-A	0.30 - 0.40	Dark Brown	Sandy Loam	Vegetation	Crushed Brick
32414886	GR04-SP406-A	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32414844	GR04-SP420-A	0.10 - 0.20	Dark Brown	Loamy Sand	Vegetation	None
32414850	GR04-SP420-A	0.30 - 0.40	Dark Brown	Loamy Sand	Stones	Vegetation
32414852	GR04-SP420-A	0.50 - 0.60	Dark Brown	Silt Loam	Brick	Stones
32414874	GR04-SP429-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32414876	GR04-SP429-A	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	Stones
32414882	GR04-SP429-A	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32414857	GR04-SP420-B	0.00 - 0.10	Dark Brown	Loamy Sand	Vegetation	Stones
32414859	GR04-SP420-B	0.30 - 0.40	Dark Brown	Sandy Silt Loam	Vegetation	None
32414861	GR04-SP420-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	Vegetation
32414889	GR04-SP429-B	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32414892	GR04-SP429-B	0.30 - 0.40	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32414895	GR04-SP429-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32414907	GR04-SP406-B-S1	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414909	GR04-SP406-B-S1	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32414911	GR04-SP406-B-S1	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Brick
32414914	GR04-SP406-B-S1	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32414916	GR04-SP406-B-S2	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414918	GR04-SP406-B-S2	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414863	GR04-SP420-C	0.10 - 0.20	Dark Brown	Loamy Sand	Vegetation	Stones
32414865	GR04-SP420-C	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Tile/Insulation Board	Vegetation
32414867	GR04-SP420-C	0.50 - 0.60	Light Brown	Sandy Silt Loam	Vegetation	None
32414899	GR04-SP429-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32414901	GR04-SP429-C	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32414904	GR04-SP429-C	0.50 - 0.60	Grey	Silty Clay	Vegetation	None
32414829	GR04-SP406-D	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32414831	GR04-SP406-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414833	GR04-SP406-D	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414835	GR04-SP406-E	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32414837	GR04-SP406-E	0.30 - 0.40	Dark Brown	Loamy Sand	Stones	Concrete/Aggregate
32414840	GR04-SP406-E	0.40 - 0.50	Dark Brown	Loamy Sand	Stones	Vegetation



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP406-A	GR04-SP406-A	GR04-SP406-A	GR04-SP420-A	GR04-SP420-A	GR04-SP420-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
* Subcontracted - refer to subcontractor report for accreditation status.					32414827	32414855	32414886	32414844	32414847	32414850
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	WT	ESALS
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	◆
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	◆
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9Cl-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP406-A	GR04-SP406-A	GR04-SP406-A	GR04-SP420-A	GR04-SP420-A	GR04-SP420-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
* Subcontracted - refer to subcontractor report for accreditation status.					32414827	32414855	32414886	32414844	32414847	32414850
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	WT	ESALS
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024			30	25	21	25		23
Soil Organic Matter (SOM)	<0.35 %	TM132			8.26	4.91	2.05	8.69		5.15
pH	1 pH Units	TM133			6.59	7.48	7.79	6.75		7.28
PFBA (375-22-4)	<0.5 µg/kg	TM440			0.767	<0.5	<0.5	<0.5		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.63		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP406-A	GR04-SP406-A	GR04-SP406-A	GR04-SP420-A	GR04-SP420-A	GR04-SP420-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
* Subcontracted - refer to subcontractor report for accreditation status.					32414827	32414855	32414886	32414844	32414847	32414850
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	WT	ESALS
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.71	5.09	2.25	4.96		4.74
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			2.58	1.04	<0.6	1.08		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP420-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP420-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
* Subcontracted - refer to subcontractor report for accreditation status.					32414852	32414869	32414874	32414876	32414882	32414857
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				
PfMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP420-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP420-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
* Subcontracted - refer to subcontractor report for accreditation status.					32414852	32414869	32414874	32414876	32414882	32414857
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	24			31	21	16		27
Soil Organic Matter (SOM)	<0.35 %	TM132	3.45	#		5.57	2.48	0.941	#	8.33
pH	1 pH Units	TM133	7.45	M		5.73	5.99	6.26	M	6.42
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8			<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		1.74
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8			<1.8	<1.8	<1.8		<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1			<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5			<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP420-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP420-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 05/11/2025	0.00 - 0.60 Process Water (PR) 05/11/2025	0.10 - 0.20 Soil/Solid (S) 05/11/2025	0.30 - 0.40 Soil/Solid (S) 05/11/2025	0.50 - 0.60 Soil/Solid (S) 05/11/2025	0.00 - 0.10 Soil/Solid (S) 05/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					07/11/2025 251107-41 32414852 ES	07/11/2025 251107-41 32414869 WS	07/11/2025 251107-41 32414874 ES	07/11/2025 251107-41 32414876 ES	07/11/2025 251107-41 32414882 ES	07/11/2025 251107-41 32414857 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.5		8.96	8.79	4.92	4.02
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		1.35	0.857	0.942	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP420-B	GR04-SP420-B	GR04-SP429-B	GR04-SP429-B	GR04-SP429-B	GR04-SP406-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
Subcontracted - refer to subcontractor report for accreditation status.					32414859	32414861	32414889	32414892	32414895	32414907
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ESALS	ES	ES
*** 6.2 FTAB (see appendix)										
1-4**\$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			25	21	35	27	19	27
Soil Organic Matter (SOM)	<0.35 %	TM132			6.1	3.22	10	8.69	1.84	6.09
pH	1 pH Units	TM133			7.38	7.34	5.76	5.88	6.31	6.15
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	0.8	0.781	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.31	6.29	3.6	1.33	4.43	6
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	2.12	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP406-B-S1	GR04-SP406-B-S1	GR04-SP406-B-S1	GR04-SP406-B-S2	GR04-SP406-B-S2	GR04-SP420-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.20 - 0.30	0.50 - 0.60	0.20 - 0.30	0.20 - 0.30	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
Subcontracted - refer to subcontractor report for accreditation status.					32414909	32414911	32414914	32414916	32414918	32414863
% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ES	ESA1	ESA2	ES
6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			25	23	23	25	23	26
Soil Organic Matter (SOM)	<0.35 %	TM132			3.9	3.36	1.74	6.91	5.07	6.84
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.03	6.34	6.8	6.11	6.26	6.27
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	1.22
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.54	4.79	5.32	5.84	5.17	2.65
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	0.91
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP420-C	GR04-SP420-C	GR04-SP429-C	GR04-SP429-C	GR04-SP429-C	GR04-SP406-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	251107-41
Subcontracted - refer to subcontractor report for accreditation status.					32414865	32414867	32414899	32414901	32414904	32414829
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6.2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			23	24	33	30	19	25
Soil Organic Matter (SOM)	<0.35 %	TM132			5.4	1.88	7.69	2.45	1.57	9.81
pH	1 pH Units	TM133			6.87	7	6.35	6.9	7.15	7.17
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.17	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.09	4.04	4.52	5.35	2.55	14.7
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			1.16	<0.6	1.2	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Results Legend			Customer Sample Ref.		GR04-SP406-D	GR04-SP406-D	GR04-SP406-E	GR04-SP406-E	GR04-SP406-E	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.				05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	
tot.unfilt	Total / unfiltered sample.				251107-41	251107-41	251107-41	251107-41	251107-41	
* Subcontracted - refer to subcontractor report for accreditation status.					32414831	32414833	32414835	32414837	32414840	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			22	24	26	27	23	
Soil Organic Matter (SOM)	<0.35 %	TM132			5.83	4.64	9.19	6.53	5.5	
					#	#	#	#	#	
pH	1 pH Units	TM133			7.51	7.65	6.87	7.6	7.67	
					M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.887	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			7.57	11.1	6	8.52	9.22	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	1.49	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41

Report Number: 784125

Superseded Report: 783955

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-41
Client Ref.: UK-70100310

Report Number: 784125
Location: Thornton Phase 3

Superseded Report: 783955

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32414827	32414855	32414886	32414844	32414847	32414850	32414852	32414869	32414874	32414876
	GR04-SP406-A	GR04-SP406-A	GR04-SP406-A	GR04-SP420-A	GR04-SP420-A	GR04-SP420-A	GR04-SP420-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A
	ES	ES	ESALS	ES	WT	ESALS	ES	WS	ES	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	24-Nov-2025	25-Nov-2025	24-Nov-2025	18-Nov-2025		18-Nov-2025	19-Nov-2025		24-Nov-2025	19-Nov-2025
PFAS Liquids (Full Suite)					26-Nov-2025			26-Nov-2025		
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025		12-Nov-2025	17-Nov-2025		12-Nov-2025	17-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025		08-Nov-2025	11-Nov-2025		07-Nov-2025	11-Nov-2025
Total Organic Carbon	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025		19-Nov-2025	19-Nov-2025		19-Nov-2025	18-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32414882	32414857	32414859	32414861	32414889	32414892	32414895	32414907	32414909	32414911
	GR04-SP429-A	GR04-SP420-B	GR04-SP420-B	GR04-SP420-B	GR04-SP429-B	GR04-SP429-B	GR04-SP429-B	GR04-SP406-B-S1	GR04-SP406-B-S1	GR04-SP406-B-S1
	ES	ES	ES	ES	ES	ESALS	ES	ES	ESA1	ESA2
	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	24-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	17-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025
pH	12-Nov-2025	12-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	07-Nov-2025	08-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	07-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	19-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32414914	32414916	32414918	32414863	32414865	32414867	32414899	32414901	32414904	32414829
	GR04-SP406-B-S1	GR04-SP406-B-S2	GR04-SP406-B-S2	GR04-SP420-C	GR04-SP420-C	GR04-SP420-C	GR04-SP429-C	GR04-SP429-C	GR04-SP429-C	GR04-SP406-D
	ES	ESA1	ESA2	ES	ES	ES	ES	ES	ES	ES
	0.50 - 0.60	0.20 - 0.30	0.20 - 0.30	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	24-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	24-Nov-2025	19-Nov-2025	19-Nov-2025	24-Nov-2025
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	17-Nov-2025	17-Nov-2025	12-Nov-2025	17-Nov-2025	17-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	11-Nov-2025	11-Nov-2025	07-Nov-2025	11-Nov-2025	11-Nov-2025	08-Nov-2025
Total Organic Carbon	18-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32414831	32414833	32414835	32414837	32414840
	GR04-SP406-D	GR04-SP406-D	GR04-SP406-E	GR04-SP406-E	GR04-SP406-E
	ES	ES	ES	ES	ES
	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	24-Nov-2025	18-Nov-2025	18-Nov-2025
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	19-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	19-Nov-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3239	QC 3230	QC 3202	QC 3297	QC 3262	QC 3249
10:2 FTS (Raw)	TM440	70.95 53.10 : 140.00	106.69 53.10 : 140.00	78.48 53.10 : 140.00	93.47 53.10 : 140.00	86.61 53.10 : 140.00	93.64 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	78.98 53.56 : 141.19	75.66 53.56 : 141.19	72.63 53.56 : 141.19	85.29 53.56 : 141.19	108.71 53.56 : 141.19	90.93 53.56 : 141.19
3:3 FTCA (Raw)	TM440	74.9 50.54 : 133.25	89.0 50.54 : 133.25	71.3 50.54 : 133.25	91.81 50.54 : 133.25	105.82 50.54 : 133.25	100.88 50.54 : 133.25
4:2 FTS (Raw)	TM440	84.44 56.34 : 145.91	76.91 56.34 : 145.91	70.24 56.34 : 145.91	94.63 56.34 : 145.91	103.53 56.34 : 145.91	103.53 56.34 : 145.91
5:3 FTCA (Raw)	TM440	84.8 52.66 : 130.08	89.67 52.66 : 130.08	66.99 52.66 : 130.08	94.67 52.66 : 130.08	96.75 52.66 : 130.08	91.07 52.66 : 130.08
6:2 FTAB (Raw)	TM440	17.43 38.50 : 101.50	47.25 38.50 : 101.50	27.58 38.50 : 101.50	33.02 38.50 : 101.50	37.72 38.50 : 101.50	36.24 38.50 : 101.50
6:2 FTS (Raw)	TM440	77.28 54.79 : 144.46	76.2 54.79 : 144.46	69.25 54.79 : 144.46	98.63 54.79 : 144.46	97.66 54.79 : 144.46	94.38 54.79 : 144.46
7:3 FTCA (Raw)	TM440	75.34 48.60 : 128.14	79.41 48.60 : 128.14	72.42 48.60 : 128.14	84.52 48.60 : 128.14	85.96 48.60 : 128.14	91.6 48.60 : 128.14
8:2 diPAP (Raw)	TM440	79.47 56.03 : 147.72	84.79 56.03 : 147.72	70.52 56.03 : 147.72	95.58 56.03 : 147.72	92.86 56.03 : 147.72	86.93 56.03 : 147.72
8:2 FTS (Raw)	TM440	80.13 55.74 : 146.96	73.79 55.74 : 146.96	74.22 55.74 : 146.96	87.93 55.74 : 146.96	98.61 55.74 : 146.96	88.69 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	78.72 54.59 : 143.91	72.13 54.59 : 143.91	64.95 54.59 : 143.91	92.69 54.59 : 143.91	102.02 54.59 : 143.91	82.55 54.59 : 143.91
ADONA (Raw)	TM440	75.2 54.01 : 132.33	71.45 54.01 : 132.33	60.7 54.01 : 132.33	94.91 54.01 : 132.33	107.12 54.01 : 132.33	103.72 54.01 : 132.33
Branched PFOS (Raw)	TM440	84.99 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	93.67 54.09 : 142.61	107.08 54.09 : 142.61	94.62 54.09 : 142.61
EtFOSAA (Raw)	TM440	74.92 52.48 : 138.36	78.31 52.48 : 138.36	65.34 52.48 : 138.36	92.62 52.48 : 138.36	100.39 52.48 : 138.36	109.79 52.48 : 138.36
EtFOSE (Raw)	TM440	78.24 57.05 : 145.29	78.18 57.05 : 145.29	64.0 57.05 : 145.29	89.02 57.05 : 145.29	110.73 57.05 : 145.29	104.99 57.05 : 145.29
FBSA (Raw)	TM440	76.89 49.51 : 125.13	82.43 49.51 : 125.13	65.58 49.51 : 125.13	87.42 49.51 : 125.13	90.6 49.51 : 125.13	89.41 49.51 : 125.13
FHxSA (Raw)	TM440	72.18 50.38 : 132.82	76.32 50.38 : 132.82	60.43 50.38 : 132.82	82.65 50.38 : 132.82	91.95 50.38 : 132.82	93.02 50.38 : 132.82
HFPO-DA (Raw)	TM440	75.48 53.47 : 140.98	75.28 53.47 : 140.98	62.92 53.47 : 140.98	87.19 53.47 : 140.98	96.5 53.47 : 140.98	100.04 53.47 : 140.98
HFPO-TA (Raw)	TM440	86.28 54.77 : 144.39	76.51 54.77 : 144.39	129.26 44.84 : 118.21	194.98 44.84 : 118.21	230.33 44.84 : 118.21	232.89 44.84 : 118.21
L-PFOS (Raw)	TM440	85.16 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	93.67 54.09 : 142.61	106.65 54.09 : 142.61	87.9 54.09 : 142.61
MeFOSAA (Raw)	TM440	73.56 53.02 : 139.78	77.5 53.02 : 139.78	64.64 53.02 : 139.78	76.97 53.02 : 139.78	93.57 53.02 : 139.78	101.55 53.02 : 139.78
MeFOSE (Raw)	TM440	76.59 54.99 : 144.97	76.58 54.99 : 144.97	61.66 54.99 : 144.97	87.99 54.99 : 144.97	101.6 54.99 : 144.97	97.61 54.99 : 144.97
N-EtFOSA (Raw)	TM440	75.32 59.56 : 132.93	75.95 59.56 : 132.93	66.88 59.56 : 132.93	87.56 59.56 : 132.93	99.48 59.56 : 132.93	97.22 59.56 : 132.93
NFDHA (Raw)	TM440	80.35 57.35 : 151.20	80.48 57.35 : 151.20	64.9 57.35 : 151.20	89.24 57.35 : 151.20	106.53 57.35 : 151.20	95.18 57.35 : 151.20
N-MeFOSA (Raw)	TM440	71.69 59.19 : 133.01	76.38 59.19 : 133.01	66.62 59.19 : 133.01	87.0 59.19 : 133.01	103.69 59.19 : 133.01	98.86 59.19 : 133.01
PFBA (Raw)	TM440	81.21 52.69 : 138.91	78.76 52.69 : 138.91	63.43 52.69 : 138.91	92.41 52.69 : 138.91	108.07 52.69 : 138.91	103.31 52.69 : 138.91



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PFAS in soils

		QC 3239	QC 3230	QC 3202	QC 3297	QC 3262	QC 3249
PFBS (Raw)	TM440	77.99 53.31 : 140.54	73.23 53.31 : 140.54	63.31 53.31 : 140.54	87.86 53.31 : 140.54	97.46 53.31 : 140.54	96.97 53.31 : 140.54
PFDA (Raw)	TM440	81.23 53.39 : 140.76	82.77 53.39 : 140.76	72.95 53.39 : 140.76	88.99 53.39 : 140.76	107.77 53.39 : 140.76	109.42 53.39 : 140.76
PFDoA (Raw)	TM440	72.69 52.85 : 139.34	78.3 52.85 : 139.34	62.49 52.85 : 139.34	89.7 52.85 : 139.34	104.91 52.85 : 139.34	106.4 52.85 : 139.34
PFDoS (Raw)	TM440	73.59 55.29 : 145.76	71.12 55.29 : 145.76	69.63 55.29 : 145.76	84.54 55.29 : 145.76	102.4 55.29 : 145.76	82.3 55.29 : 145.76
PFDS (Raw)	TM440	80.99 52.94 : 139.56	71.38 52.94 : 139.56	65.93 52.94 : 139.56	92.12 52.94 : 139.56	105.89 52.94 : 139.56	82.08 52.94 : 139.56
PFecHS (Raw)	TM440	71.47 50.75 : 133.80	75.85 50.75 : 133.80	64.09 50.75 : 133.80	87.74 50.75 : 133.80	83.52 50.75 : 133.80	85.45 50.75 : 133.80
PFEESA (Raw)	TM440	70.42 50.87 : 134.12	86.6 50.87 : 134.12	67.03 50.87 : 134.12	87.58 50.87 : 134.12	105.54 50.87 : 134.12	105.28 50.87 : 134.12
PFHpA (Raw)	TM440	75.62 52.61 : 138.69	74.3 52.61 : 138.69	66.13 52.61 : 138.69	100.22 52.61 : 138.69	104.62 52.61 : 138.69	104.72 52.61 : 138.69
PFHpS (Raw)	TM440	75.07 55.29 : 145.76	75.22 55.29 : 145.76	69.12 55.29 : 145.76	91.4 55.29 : 145.76	116.68 55.29 : 145.76	92.51 55.29 : 145.76
PFHxA (Raw)	TM440	79.34 54.05 : 142.50	78.95 54.05 : 142.50	66.22 54.05 : 142.50	93.47 54.05 : 142.50	108.63 54.05 : 142.50	100.23 54.05 : 142.50
PFHxDA (Raw)	TM440	77.03 52.03 : 137.17	73.12 52.03 : 137.17	62.84 52.03 : 137.17	88.82 52.03 : 137.17	102.8 52.03 : 137.17	102.21 52.03 : 137.17
PFHxS (Raw)	TM440	75.57 53.56 : 141.19	80.54 53.56 : 141.19	63.78 53.56 : 141.19	88.86 53.56 : 141.19	86.38 53.56 : 141.19	89.87 53.56 : 141.19
PFMOBA (Raw)	TM440	79.24 52.73 : 139.02	76.04 52.73 : 139.02	66.35 52.73 : 139.02	90.27 52.73 : 139.02	105.05 52.73 : 139.02	101.36 52.73 : 139.02
PFMOPra (Raw)	TM440	82.18 52.57 : 138.58	105.8 52.57 : 138.58	66.11 52.57 : 138.58	92.62 52.57 : 138.58	116.05 52.57 : 138.58	109.48 52.57 : 138.58
PFNA (Raw)	TM440	72.32 52.94 : 139.56	79.06 52.94 : 139.56	67.58 52.94 : 139.56	91.65 52.94 : 139.56	105.71 52.94 : 139.56	108.31 52.94 : 139.56
PFNS (Raw)	TM440	82.15 54.38 : 143.37	74.37 54.38 : 143.37	63.73 54.38 : 143.37	94.87 54.38 : 143.37	110.27 54.38 : 143.37	82.61 54.38 : 143.37
PFOA (Raw)	TM440	80.53 53.80 : 141.85	81.33 53.80 : 141.85	67.93 53.80 : 141.85	97.78 53.80 : 141.85	105.28 53.80 : 141.85	103.56 53.80 : 141.85
PFODA (Raw)	TM440	72.87 56.03 : 147.72	73.47 56.03 : 147.72	57.6 56.03 : 147.72	80.37 56.03 : 147.72	80.24 56.03 : 147.72	77.18 56.03 : 147.72
PFOSA (Raw)	TM440	75.62 53.10 : 140.00	75.17 53.10 : 140.00	63.03 53.10 : 140.00	87.32 53.10 : 140.00	100.69 53.10 : 140.00	97.6 53.10 : 140.00
PFPA (Raw)	TM440	78.36 53.89 : 142.06	75.11 53.89 : 142.06	65.17 53.89 : 142.06	88.17 53.89 : 142.06	112.03 53.89 : 142.06	110.29 53.89 : 142.06
PFPeS (Raw)	TM440	69.99 54.30 : 143.15	82.92 54.30 : 143.15	64.68 54.30 : 143.15	88.78 54.30 : 143.15	92.97 54.30 : 143.15	92.76 54.30 : 143.15
PFTeA (Raw)	TM440	82.98 53.06 : 139.89	81.78 53.06 : 139.89	73.86 53.06 : 139.89	97.76 53.06 : 139.89	115.11 53.06 : 139.89	108.88 53.06 : 139.89
PFTrDA (Raw)	TM440	87.87 51.70 : 136.30	83.76 51.70 : 136.30	82.64 51.70 : 136.30	98.62 51.70 : 136.30	111.09 51.70 : 136.30	102.28 51.70 : 136.30
PFTrDS (Raw)	TM440	76.88 56.24 : 148.26	75.65 56.24 : 148.26	69.84 56.24 : 148.26	90.15 56.24 : 148.26	105.72 56.24 : 148.26	82.63 56.24 : 148.26
PFUnA (Raw)	TM440	77.89 53.35 : 140.65	77.93 53.35 : 140.65	74.59 53.35 : 140.65	92.16 53.35 : 140.65	110.34 53.35 : 140.65	105.98 53.35 : 140.65
PFUnDS (Raw)	TM440	69.15 53.60 : 141.30	72.63 53.60 : 141.30	71.59 53.60 : 141.30	90.57 53.60 : 141.30	101.37 53.60 : 141.30	85.97 53.60 : 141.30



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PFAS in soils

Component	Method Code	QC 3299
10:2 FTS (Raw)	TM440	113.65 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	112.56 53.56 : 141.19
3:3 FTCA (Raw)	TM440	97.48 50.54 : 133.25
4:2 FTS (Raw)	TM440	95.25 56.34 : 145.91
5:3 FTCA (Raw)	TM440	95.01 52.66 : 130.08
6:2 FTAB (Raw)	TM440	45.77 38.50 : 101.50
6:2 FTS (Raw)	TM440	99.79 54.79 : 144.46
7:3 FTCA (Raw)	TM440	91.72 48.60 : 128.14
8:2 diPAP (Raw)	TM440	87.13 56.03 : 147.72
8:2 FTS (Raw)	TM440	109.12 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	95.86 54.59 : 143.91
ADONA (Raw)	TM440	96.06 54.01 : 132.33
Branched PFOS (Raw)	TM440	91.39 54.09 : 142.61
EtFOSAA (Raw)	TM440	85.59 52.48 : 138.36
EtFOSE (Raw)	TM440	99.57 57.05 : 145.29
FBSA (Raw)	TM440	87.0 49.51 : 125.13
FHxSA (Raw)	TM440	87.21 50.38 : 132.82
HFPO-DA (Raw)	TM440	95.7 53.47 : 140.98
HFPO-TA (Raw)	TM440	205.25 44.84 : 118.21
L-PFOS (Raw)	TM440	88.82 54.09 : 142.61
MeFOSAA (Raw)	TM440	89.11 53.02 : 139.78
MeFOSE (Raw)	TM440	100.87 54.99 : 144.97
N-EtFOSA (Raw)	TM440	92.55 59.56 : 132.93
NFDHA (Raw)	TM440	100.09 57.35 : 151.20
N-MeFOSA (Raw)	TM440	89.47 59.19 : 133.01
PFBA (Raw)	TM440	98.15 52.69 : 138.91
PFBS (Raw)	TM440	95.96 53.31 : 140.54



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PFAS in soils

		QC 3299
PFDA (Raw)	TM440	97.75 53.39 : 140.76
PFDoA (Raw)	TM440	105.55 52.85 : 139.34
PFDoS (Raw)	TM440	96.6 55.29 : 145.76
PFDS (Raw)	TM440	103.72 52.94 : 139.56
PFecHS (Raw)	TM440	84.13 50.75 : 133.80
PFEESA (Raw)	TM440	95.41 50.87 : 134.12
PFHpA (Raw)	TM440	102.01 52.61 : 138.69
PFHpS (Raw)	TM440	99.86 55.29 : 145.76
PFHxA (Raw)	TM440	103.43 54.05 : 142.50
PFHxDA (Raw)	TM440	98.84 52.03 : 137.17
PFHxS (Raw)	TM440	89.5 53.56 : 141.19
PFMOBA (Raw)	TM440	103.72 52.73 : 139.02
PFMOPra (Raw)	TM440	109.06 52.57 : 138.58
PFNA (Raw)	TM440	104.15 52.94 : 139.56
PFNS (Raw)	TM440	94.2 54.38 : 143.37
PFOA (Raw)	TM440	101.23 53.80 : 141.85
PFODA (Raw)	TM440	86.22 56.03 : 147.72
PFOSA (Raw)	TM440	89.91 53.10 : 140.00
PFPA (Raw)	TM440	105.61 53.89 : 142.06
PFPeS (Raw)	TM440	96.78 54.30 : 143.15
PFTeA (Raw)	TM440	105.18 53.06 : 139.89
PFTrDA (Raw)	TM440	105.37 51.70 : 136.30
PFTrDS (Raw)	TM440	96.05 56.24 : 148.26
PFUnA (Raw)	TM440	96.26 53.35 : 140.65
PFUnDS (Raw)	TM440	97.46 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3244
11CI-PF3OUdS (763051-92-9)	TM434	115.14 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	91.02 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	100.2 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	82.9 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	72.81 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	108.33 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	91.96 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	96.46 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	98.59 69.20 : 147.13
ADONA (919005-14-4)	TM434	95.99 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	103.72 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	1078.33 67.47 : 136.89
FBSA (30334-69-1)	TM434	91.38 63.70 : 143.28
FHxSA (41997-13-1)	TM434	106.42 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	91.21 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	103.18 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	106.17 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	91.38 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	103.01 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	102.77 57.83 : 132.08
NFDHA (151772-58-6)	TM434	107.04 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	107.5 61.69 : 135.49
PFBA (375-22-4)	TM434	105.04 74.68 : 133.63
PFBS (375-73-5)	TM434	95.32 74.09 : 133.79
PFDA (335-76-2)	TM434	103.28 72.39 : 135.76
PFDaA (307-55-1)	TM434	93.56 58.06 : 148.21
PFDoS (79780-39-5)	TM434	124.33 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3244
PFDS (335-77-3)	TM434	115.26 58.61 : 140.44
PFecHS (646-83-3)	TM434	91.95 76.93 : 133.25
PFEESA (113507-82-7)	TM434	92.01 62.25 : 138.08
PFHpA (375-85-9)	TM434	97.48 75.71 : 136.46
PFHpS (375-92-8)	TM434	107.84 76.13 : 132.38
PFHxA (307-24-4)	TM434	98.85 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	98.85 71.24 : 136.49
PFHxS (355-46-4)	TM434	102.47 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	99.46 76.41 : 130.26
PFMOPra (377-73-1)	TM434	104.68 65.74 : 128.74
PFNA (375-95-1)	TM434	109.94 75.01 : 133.06
PFNS (68259-12-1)	TM434	108.46 74.74 : 129.26
PFOA (335-67-1)	TM434	97.54 74.76 : 136.11
PFODA (16517-11-6)	TM434	9.6 53.58 : 141.25
PFOSA (754-91-6)	TM434	97.96 76.54 : 135.04
PFPA (2706-90-3)	TM434	93.66 77.89 : 134.66
PFPeS (2706-91-4)	TM434	109.8 69.49 : 132.71
PFTeA (376-06-7)	TM434	97.2 61.66 : 143.71
PFTrDA (72629-94-8)	TM434	81.11 67.04 : 136.04
PFTrDS (791563-89-8)	TM434	124.92 76.88 : 133.35
PFUnA (2058-94-8)	TM434	100.55 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	124.96 71.45 : 127.25

pH

Component	Method Code	QC 3254	QC 3256	QC 3258	QC 3260	QC 3262	QC 3242
pH	TM133	100.37 95.29 : 105.24	99.72 95.29 : 105.24	99.36 95.29 : 105.24	99.89 95.29 : 105.24	99.61 95.29 : 105.24	98.31 95.29 : 105.24



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pH

Component	Method Code	QC 3244	QC 3246
pH	TM133	99.63 95.29 : 105.24	99.48 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3267	QC 3294	QC 3216	QC 3226	QC 3245	QC 3247
Total Organic Carbon	TM132	96.9 93.61 : 106.00	97.04 93.61 : 106.00	96.98 93.61 : 106.00	97.85 93.61 : 106.00	96.45 93.61 : 106.00	95.97 93.61 : 106.00

Component	Method Code	QC 3257
Total Organic Carbon	TM132	96.04 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	26 November 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251107-42
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	784121
Order Number:	UK-70100310

We received 51 samples on Friday November 07, 2025 and 51 of these samples were scheduled for analysis which was completed on Wednesday November 26, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32414925	GR03-SP330-A	WS	0.00 - 0.60	06/11/2025
32414953	GR03-SP330-A	ES	0.10 - 0.20	06/11/2025
32414983	GR03-SP330-A	ES	0.20 - 0.30	06/11/2025
32415017	GR03-SP330-A	ES	0.50 - 0.60	06/11/2025
32414977	GR03-SP331-A-S1	ES	0.00 - 0.10	06/11/2025
32414979	GR03-SP331-A-S1	ESA1	0.30 - 0.40	06/11/2025
32414981	GR03-SP331-A-S1	ESA2	0.30 - 0.40	06/11/2025
32414987	GR03-SP331-A-S1	ES	0.40 - 0.50	06/11/2025
32414990	GR03-SP331-A-S2	ESA1	0.30 - 0.40	06/11/2025
32414993	GR03-SP331-A-S2	ESA2	0.30 - 0.40	06/11/2025
32414996	GR03-SP331-B	ES	0.10 - 0.20	06/11/2025
32414999	GR03-SP331-B	ES	0.20 - 0.30	06/11/2025
32415001	GR03-SP331-B	ES	0.50 - 0.60	06/11/2025
32415042	GR03-SP330-B-S1	ESA1	0.00 - 0.10	06/11/2025
32415050	GR03-SP330-B-S1	ESA2	0.00 - 0.10	06/11/2025
32415055	GR03-SP330-B-S1	ES	0.20 - 0.30	06/11/2025
32415057	GR03-SP330-B-S1	ES	0.40 - 0.50	06/11/2025
32415059	GR03-SP330-B-S2	ESA1	0.00 - 0.10	06/11/2025
32414928	GR03-SP330-B-S2	ESA2	0.00 - 0.10	06/11/2025
32414930	GR03-SP330-C	ES	0.10 - 0.20	06/11/2025
32414932	GR03-SP330-C	ES	0.30 - 0.40	06/11/2025
32414934	GR03-SP330-C	ES	0.50 - 0.60	06/11/2025
32415006	GR03-SP331-C	ES	0.00 - 0.10	06/11/2025
32415008	GR03-SP331-C	ESALS	0.20 - 0.30	06/11/2025
32415011	GR03-SP331-C	ES	0.40 - 0.50	06/11/2025
32414937	GR03-SP330-D	ESALS	0.00 - 0.10	06/11/2025
32414940	GR03-SP330-D	ES	0.30 - 0.40	06/11/2025
32414943	GR03-SP330-D	ES	0.40 - 0.50	06/11/2025
32415015	GR03-SP331-D	ES	0.10 - 0.20	06/11/2025
32415019	GR03-SP331-D	ES	0.30 - 0.40	06/11/2025
32415021	GR03-SP331-D	ES	0.50 - 0.60	06/11/2025
32414945	GR03-SP330-E	ES	0.10 - 0.20	06/11/2025
32414947	GR03-SP330-E	ES	0.20 - 0.30	06/11/2025
32414950	GR03-SP330-E	ES	0.50 - 0.60	06/11/2025
32415024	GR03-SP331-E	ES	0.00 - 0.10	06/11/2025
32415026	GR03-SP331-E	ES	0.30 - 0.40	06/11/2025
32415028	GR03-SP331-E	ES	0.40 - 0.50	06/11/2025
32414956	GR03-SP330-F	ES	0.00 - 0.10	06/11/2025
32414959	GR03-SP330-F	ES	0.20 - 0.30	06/11/2025
32414961	GR03-SP330-F	ES	0.40 - 0.50	06/11/2025
32414964	GR03-SP330-F	WT	0.40 - 0.50	06/11/2025
32415030	GR03-SP331-F	ES	0.10 - 0.20	06/11/2025
32415032	GR03-SP331-F	WT	0.10 - 0.20	06/11/2025
32415036	GR03-SP331-F	ESALS	0.20 - 0.30	06/11/2025
32415038	GR03-SP331-F	ES	0.50 - 0.60	06/11/2025
32414968	GR03-SP330-G	ES	0.10 - 0.20	06/11/2025
32414971	GR03-SP330-G	ES	0.30 - 0.40	06/11/2025
32414974	GR03-SP330-G	ESALS	0.50 - 0.60	06/11/2025
32415040	GR03-SP331-G	ES	0.00 - 0.10	06/11/2025
32415045	GR03-SP331-G	ES	0.20 - 0.30	06/11/2025
32415048	GR03-SP331-G	ES	0.40 - 0.50	06/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend X Test N No Determination Possible Sample Types - S - Soil/Solid UNS - Unspecified Solid GW - Ground Water SW - Surface Water LE - Land Leachate PL - Prepared Leachate PR - Process Water SA - Saline Water TE - Trade Effluent TS - Treated Sewage US - Untreated Sewage RE - Recreational Water DW - Drinking Water Non-regulatory UNL - Unspecified Liquid SL - Sludge G - Gas OTH - Other	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	32414928	GR03-SP330-B-S2	ES A2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	32415059	GR03-SP330-B-S2	ES A1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	32415057	GR03-SP330-B-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	32415055	GR03-SP330-B-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	32415050	GR03-SP330-B-S1	ES A2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	32415042	GR03-SP330-B-S1	ES A1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	32415001	GR03-SP331-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	32414999	GR03-SP331-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	32414996	GR03-SP331-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	32414993	GR03-SP331-A-S2	ES A2	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	32414990	GR03-SP331-A-S2	ES A1	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	32414987	GR03-SP331-A-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	32414981	GR03-SP331-A-S1	ES A2	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	32414979	GR03-SP331-A-S1	ES A1	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	32414977	GR03-SP331-A-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	32415017	GR03-SP330-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	32414983	GR03-SP330-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	32414953	GR03-SP330-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	32414925	GR03-SP330-A	WS	0.00 - 0.60	50ml digtube (ALE001)	PW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	PFAS in soils		All	NDPs: 0 Tests: 48				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X</

32414961	GR03-SP330-F	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414959	GR03-SP330-F	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414956	GR03-SP330-F	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415028	GR03-SP331-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415026	GR03-SP331-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415024	GR03-SP331-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414950	GR03-SP330-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414947	GR03-SP330-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414945	GR03-SP330-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415021	GR03-SP331-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415019	GR03-SP331-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415015	GR03-SP331-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414943	GR03-SP330-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414940	GR03-SP330-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414937	GR03-SP330-D	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415011	GR03-SP331-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415008	GR03-SP331-C	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X		X
32415006	GR03-SP331-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414934	GR03-SP330-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414932	GR03-SP330-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X		X
32414930	GR03-SP330-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32415048	GR03-SP331-G	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32415045	GR03-SP331-G	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32415040	GR03-SP331-G	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32414974	GR03-SP330-G	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32414971	GR03-SP330-G	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32414968	GR03-SP330-G	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32415038	GR03-SP331-F	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32415036	GR03-SP331-F	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32415032	GR03-SP331-F	WT	0.10 - 0.20	50ml digtube (ALE001)	PW						
	32415030	GR03-SP331-F	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32414964	GR03-SP330-F	WT	0.40 - 0.50	50ml digtube (ALE001)	PW						
PFAS Liquids (Full Suite)	All		NDPs: 0 Tests: 48		NDPs: 0 Tests: 3		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48	
pH	All		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48	
Sample description	All		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48	
Total Organic Carbon	All		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48		NDPs: 0 Tests: 48	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32414953	GR03-SP330-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32414983	GR03-SP330-A	0.20 - 0.30	Dark Brown	Clay Loam	Stones	Vegetation
32415017	GR03-SP330-A	0.50 - 0.60	Dark Brown	Silty Clay	None	None
32414977	GR03-SP331-A-S1	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32414979	GR03-SP331-A-S1	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	None
32414981	GR03-SP331-A-S1	0.30 - 0.40	Dark Brown	Silty Clay Loam	Brick	Concrete/Aggregate
32414987	GR03-SP331-A-S1	0.40 - 0.50	Light Brown	Silty Clay Loam	None	None
32414990	GR03-SP331-A-S2	0.30 - 0.40	Light Brown	Silty Clay Loam	Vegetation	None
32414993	GR03-SP331-A-S2	0.30 - 0.40	Light Brown	Silty Clay Loam	Vegetation	None
32414996	GR03-SP331-B	0.10 - 0.20	Dark Brown	Silt Loam	Vegetation	None
32414999	GR03-SP331-B	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32415001	GR03-SP331-B	0.50 - 0.60	Light Brown	Silty Clay Loam	None	None
32415042	GR03-SP330-B-S1	0.00 - 0.10	Dark Brown	Clay Loam	Vegetation	None
32415050	GR03-SP330-B-S1	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32415055	GR03-SP330-B-S1	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32415057	GR03-SP330-B-S1	0.40 - 0.50	Dark Brown	Silty Clay	None	None
32414928	GR03-SP330-B-S2	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32415059	GR03-SP330-B-S2	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414930	GR03-SP330-C	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32414932	GR03-SP330-C	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32414934	GR03-SP330-C	0.50 - 0.60	Dark Brown	Silty Clay	Vegetation	None
32415006	GR03-SP331-C	0.00 - 0.10	Light Brown	Sandy Loam	Stones	Vegetation
32415008	GR03-SP331-C	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32415011	GR03-SP331-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32414937	GR03-SP330-D	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	Stones
32414940	GR03-SP330-D	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	None
32414943	GR03-SP330-D	0.40 - 0.50	Light Brown	Silty Clay	Vegetation	None
32415015	GR03-SP331-D	0.10 - 0.20	Light Brown	Sandy Loam	Stones	Vegetation
32415019	GR03-SP331-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32415021	GR03-SP331-D	0.50 - 0.60	Dark Brown	Clay Loam	Vegetation	None
32414945	GR03-SP330-E	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32414947	GR03-SP330-E	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32414950	GR03-SP330-E	0.50 - 0.60	Light Brown	Silty Clay	Vegetation	None
32415024	GR03-SP331-E	0.00 - 0.10	Light Brown	Sandy Loam	Vegetation	None
32415026	GR03-SP331-E	0.30 - 0.40	Light Brown	Sandy Loam	Vegetation	None
32415028	GR03-SP331-E	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32414956	GR03-SP330-F	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32414959	GR03-SP330-F	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32414961	GR03-SP330-F	0.40 - 0.50	Light Brown	Silty Clay Loam	Vegetation	None



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
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Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32415030	GR03-SP331-F	0.10 - 0.20	Light Brown	Sandy Loam	Stones	Vegetation
32415036	GR03-SP331-F	0.20 - 0.30	Light Brown	Sandy Loam	Stones	Vegetation
32415038	GR03-SP331-F	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation
32414968	GR03-SP330-G	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32414971	GR03-SP330-G	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	None
32414974	GR03-SP330-G	0.50 - 0.60	Light Brown	Clay Loam	Vegetation	None
32415040	GR03-SP331-G	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32415045	GR03-SP331-G	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32415048	GR03-SP331-G	0.40 - 0.50	Light Brown	Sandy Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP331-A-S1	GR03-SP331-A-S1
#	ISO17025 accredited.			0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP331-A-S1	GR03-SP331-A-S1
#	ISO17025 accredited.		0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.		Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
***	6:2 FTAB (see appendix)		251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
1-4**	Sample deviation (see appendix)		32414925	32414953	32414983	32415017	32414977	32414979
		WS	ES	ES	ES	ES	ESA1	
Component	LOD/Units	Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002					
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01					
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001					
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01					
Total PFOS	<0.00065 µg/l	TM434	<0.00065					
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001					
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024		32	17	18	31	19
Soil Organic Matter (SOM)	<0.35 %	TM132		5.34	1.39	1.04	6.41	1.42
pH	1 pH Units	TM133		6.02	6.67	7.21	5.92	7.43
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP331-A-S1	GR03-SP331-A-S1
# ISO17025 accredited.	m	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.60 Process Water (PR) 06/11/2025	0.10 - 0.20 Soil/Solid (S) 06/11/2025	0.20 - 0.30 Soil/Solid (S) 06/11/2025	0.50 - 0.60 Soil/Solid (S) 06/11/2025	0.00 - 0.10 Soil/Solid (S) 06/11/2025	0.30 - 0.40 Soil/Solid (S) 06/11/2025
aq Aqueous / settled sample.	dis	dis							
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)				07/11/2025 251107-42 32414925 WS	07/11/2025 251107-42 32414953 ES	07/11/2025 251107-42 32414983 ES	07/11/2025 251107-42 32415017 ES	07/11/2025 251107-42 32414977 ES	07/11/2025 251107-42 32414979 ESA1
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.04	3.88	5.72	5.84	5.8
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.861	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			1.19	<0.6	<0.6	2.14	1.39
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

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Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S2	GR03-SP331-A-S2	GR03-SP331-B	GR03-SP331-B
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**\$@Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	15	18	19	18	26	18	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.45	1.32	1.26	1.37	4.05	2.59	
pH	1 pH Units	TM133	7.4	7.48	7.64	7.48	6.58	7.48	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.4	4.69	3.45	4.68	4.67	4.41	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	0.939	0.767	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

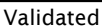
Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP331-B	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 06/11/2025	0.00 - 0.10 Soil/Solid (S) 06/11/2025	0.00 - 0.10 Soil/Solid (S) 06/11/2025	0.20 - 0.30 Soil/Solid (S) 06/11/2025	0.40 - 0.50 Soil/Solid (S) 06/11/2025	0.00 - 0.10 Soil/Solid (S) 06/11/2025
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**\$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			16	24	27	22	18	28
Soil Organic Matter (SOM)	<0.35 %	TM132			1.66	2.72	3.9	2.14	1.24	4.19
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.42	5.94	5.96	6.18	7.02	5.86
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.2	3.51	3.01	4.15	2.91	4.55
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



SDG: 251107-42
Client Ref.: UK-70100310

Superseded Report:

Location: Thornton Phase 3

13:30:13 26/11/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP330-B-S2	GR03-SP330-C	GR03-SP330-C	GR03-SP330-C	GR03-SP331-C	GR03-SP331-C						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414928 ESA2								0.10 - 0.20 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414930 ES	0.30 - 0.40 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414932 ES	0.50 - 0.60 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414934 ES	0.00 - 0.10 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415006 ES	0.20 - 0.30 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415008 ESALS	
Component	LOD/Units	Method								26	32	20	20	20	
Moisture Content Ratio (% of as received sample)	%	PM024								26	32	20	20	20	
Soil Organic Matter (SOM)	<0.35 %	TM132								3.9#	4.86#	1.84#	1.95#	3.91#	2.95#
pH	1 pH Units	TM133								5.9M	5.88M	7.1M	6.96M	4.72M	4.69M
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	0.73	0.695
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.51	5	5.09	6.42	3.3	5.61							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.02	1.02	<0.6	<0.6	0.882	0.989							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP331-C	GR03-SP330-D	GR03-SP330-D	GR03-SP330-D	GR03-SP331-D	GR03-SP331-D		
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415011 ES									
M mCERTS accredited.										0.00 - 0.10 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414937 ESALS	
aq Aqueous / settled sample.											0.30 - 0.40 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414940 ES
diss.filt Dissolved / filtered sample.											
tot.unfiltTotal / unfiltered sample.	0.10 - 0.20 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415015 ES										
* Subcontracted - refer to subcontractor report for accreditation status.		0.30 - 0.40 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415019 ES									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery											
*** 6:2 FTAB (see appendix)											
1-4*§@ Sample deviation (see appendix)											
Component	LOD/Units	Method									
Moisture Content Ratio (% of as received sample)	%	PM024	25	25	18	18	23	15			
Soil Organic Matter (SOM)	<0.35 %	TM132	1.4	3.4	1.76	1.28	3.28	1.56			
			#	#	#	#	#	#			
pH	1 pH Units	TM133	6.18	6.15	6.68	6.98	4.55	5.67			
			M	M	M	M	M	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.82	3.82	8.77	5.54	2.87	6.3			
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	1.07	<0.6	<0.6	<0.6	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP331-D	GR03-SP330-E	GR03-SP330-E	GR03-SP330-E	GR03-SP331-E	GR03-SP331-E
# ISO17025 accredited.	M mCERTS accredited.								
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**@Sample deviation (see appendix)									
Depth (m)	Sample Type	0.50 - 0.60							
Date Sampled	Sample Time	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
Date Received		06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025		
SDG Ref									
Lab Sample No.(s)		07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025		
AGS Reference		251107-42	251107-42	251107-42	251107-42	251107-42	251107-42		
		32415021	32414945	32414947	32414950	32415024	32415026		
		ES	ES	ES	ES	ES	ES		
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	17	22	16	15	17	22	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.71	3.83	1.32	0.648	5.47	2.1	
pH	1 pH Units	TM133	5.76	6.29	7.23	7.22	4.35	4.81	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	0.792	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.46	3.21	4.36	2.51	3.27	4.95	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	1.05	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP331-E	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP331-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
Subcontracted - refer to subcontractor report for accreditation status.					32415028	32414956	32414959	32414961	32414964	32415030
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	◆
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	◆
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP331-E	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP331-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
diss.filt	Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfilt	Total / unfiltered sample.				251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
* Subcontracted - refer to subcontractor report for accreditation status.					32415028	32414956	32414959	32414961	32414964	32414964	32415030
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	WT	ES
*** 6:2 FTAB (see appendix)											
1-4* Sample deviation (see appendix)											
Component	LOD/Units	Method									
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01	
Total PFOS	<0.00065 µg/l	TM434								<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434								<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	25		26		18		15		17
Soil Organic Matter (SOM)	<0.35 %	TM132	1.4	#	4.78	#	1.7	#	0.819	#	3.81
pH	1 pH Units	TM133	5.52	M	5.61	M	6.48	M	7.02	M	4.74
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		0.767		<0.5		<0.5		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8		<0.8		<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		1.24		<0.5		<0.5		<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8		<1.8		<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1		<1		<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP331-E	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP331-F
#	ISO17025 accredited.		0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.		06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
***	6:2 FTAB (see appendix)		251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
1-4**@	Sample deviation (see appendix)		32415028	32414956	32414959	32414961	32414964	32415030
		ES	ES	ES	ES	WT	ES	
Component	LOD/Units	Method						
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.02	3.43	4.24	2.92		2.21
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	1.36	0.77	<0.6		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP331-F	GR03-SP331-F	GR03-SP331-F	GR03-SP330-G	GR03-SP330-G	GR03-SP330-G
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.20 Process Water (PR) 06/11/2025 07/11/2025 251107-42 32415032 WT	0.20 - 0.30 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415036 ESALS	0.50 - 0.60 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32415038 ES	0.10 - 0.20 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414968 ES	0.30 - 0.40 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414971 ES	0.50 - 0.60 Soil/Solid (S) 06/11/2025 07/11/2025 251107-42 32414974 ESALS
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP331-F	GR03-SP331-F	GR03-SP331-F	GR03-SP330-G	GR03-SP330-G	GR03-SP330-G
#	ISO17025 accredited.		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M	mCERTS accredited.		Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
***	6:2 FTAB (see appendix)		251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
1-4**	Sample deviation (see appendix)		32415032	32415036	32415038	32414968	32414971	32414974
Component	LOD/Units	Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002					
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002	◆				
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01	◆				
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01	◆				
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001					
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01					
Total PFOS	<0.00065 µg/l	TM434	<0.00065					
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001	◆				
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001	◆				
Moisture Content Ratio (% of as received sample)	%	PM024		20	23	23	20	19
Soil Organic Matter (SOM)	<0.35 %	TM132		2.31 #	1.27 #	3.38 #	3.43 #	1.53 #
pH	1 pH Units	TM133		4.61 M	5.5 M	5.98 M	6.22 M	6.89 M
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP331-F	GR03-SP331-F	GR03-SP331-F	GR03-SP330-G	GR03-SP330-G	GR03-SP330-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20 Process Water (PR) 06/11/2025	0.20 - 0.30 Soil/Solid (S) 06/11/2025	0.50 - 0.60 Soil/Solid (S) 06/11/2025	0.10 - 0.20 Soil/Solid (S) 06/11/2025	0.30 - 0.40 Soil/Solid (S) 06/11/2025	0.50 - 0.60 Soil/Solid (S) 06/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
*** 6:2 FTAB (see appendix)					32415032	32415036	32415038	32414968	32414971	32414974
1-4*5@ Sample deviation (see appendix)					WT	ESALS	ES	ES	ES	ESALS
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440				4.33	4.3	2.65	3.61	4.56
PFHxS (355-46-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440				<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440				<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440				<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440				<0.6	<0.6	0.881	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440				<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440				<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.					
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP331-G	GR03-SP331-G	GR03-SP331-G		
M mCERTS accredited.								
aq Aqueous / settled sample.								
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	23	23	27			
Soil Organic Matter (SOM)	<0.35 %	TM132	6.03	3.29	1.22			
pH	1 pH Units	TM133	6.07	6.49	7.08			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.92	3.1	2.08			
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440	0.86	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	2.23	1.11	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32414925	32414953	32414983	32415017	32414977	32414979	32414981	32414987	32414990	32414993
	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP330-A	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S2	GR03-SP331-A-S2
	WS	ES	ES	ES	ES	ESA1	ESA2	ES	ESA1	ESA2
	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.30 - 0.40	0.30 - 0.40
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		24-Nov-2025	18-Nov-2025	17-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025
PFAS Liquids (Full Suite)	26-Nov-2025									
pH		12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description		08-Nov-2025	08-Nov-2025	08-Nov-2025	07-Nov-2025	07-Nov-2025	07-Nov-2025	07-Nov-2025	07-Nov-2025	07-Nov-2025
Total Organic Carbon		19-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	17-Nov-2025	19-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32414996	32414999	32415001	32415042	32415050	32415055	32415057	32414928	32415059	32414930
	GR03-SP331-B	GR03-SP331-B	GR03-SP331-B	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S2	GR03-SP330-B-S2	GR03-SP330-C
	ES	ES	ES	ESA1	ESA2	ES	ES	ESA2	ESA1	ES
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	25-Nov-2025	17-Nov-2025	24-Nov-2025	24-Nov-2025	18-Nov-2025	24-Nov-2025	25-Nov-2025	24-Nov-2025
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	07-Nov-2025	07-Nov-2025	07-Nov-2025	08-Nov-2025	07-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	19-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32414932	32414934	32415006	32415008	32415011	32414937	32414940	32414943	32415015	32415019
	GR03-SP330-C	GR03-SP330-C	GR03-SP331-C	GR03-SP331-C	GR03-SP331-C	GR03-SP330-D	GR03-SP330-D	GR03-SP330-D	GR03-SP331-D	GR03-SP331-D
	ES	ES	ES	ESALS	ES	ESALS	ES	ES	ES	ES
	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	17-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	17-Nov-2025	24-Nov-2025
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	17-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	17-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	07-Nov-2025	07-Nov-2025	11-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	11-Nov-2025	07-Nov-2025
Total Organic Carbon	19-Nov-2025	18-Nov-2025	19-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32415021	32414945	32414947	32414950	32415024	32415026	32415028	32414956	32414959	32414961
	GR03-SP331-D	GR03-SP330-E	GR03-SP330-E	GR03-SP330-E	GR03-SP331-E	GR03-SP331-E	GR03-SP331-E	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	18-Nov-2025	24-Nov-2025	18-Nov-2025	25-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	25-Nov-2025	24-Nov-2025	24-Nov-2025
pH	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Sample description	08-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025
Total Organic Carbon	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32414964	32415030	32415032	32415036	32415038	32414968	32414971	32414974	32415040	32415045
	GR03-SP330-F	GR03-SP331-F	GR03-SP331-F	GR03-SP331-F	GR03-SP331-F	GR03-SP330-G	GR03-SP330-G	GR03-SP330-G	GR03-SP331-G	GR03-SP331-G
	WT	ES	WT	ESALS	ES	ES	ES	ESALS	ES	ES
	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30
	Process	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		17-Nov-2025		17-Nov-2025	17-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025	19-Nov-2025	24-Nov-2025
PFAS Liquids (Full Suite)	26-Nov-2025		26-Nov-2025							
pH		17-Nov-2025		17-Nov-2025	17-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	17-Nov-2025	12-Nov-2025
Sample description		11-Nov-2025		11-Nov-2025	11-Nov-2025	08-Nov-2025	08-Nov-2025	08-Nov-2025	11-Nov-2025	07-Nov-2025
Total Organic Carbon		18-Nov-2025		18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	19-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32415048									
	GR03-SP331-G									
	ES									
	0.40 - 0.50									
	Soil/Solid (S)									
PFAS in soils	17-Nov-2025									
pH	17-Nov-2025									
Sample description	11-Nov-2025									
Total Organic Carbon	18-Nov-2025									



CERTIFICATE OF ANALYSIS

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SDG: 251107-42
Client Ref.: UK-70100310Report Number: 784121
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Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3239	QC 3287	QC 3230	QC 3202	QC 3262	QC 3249
10:2 FTS (Raw)	TM440	70.95 53.10 : 140.00	102.15 53.10 : 140.00	106.69 53.10 : 140.00	78.48 53.10 : 140.00	86.61 53.10 : 140.00	93.64 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	78.98 53.56 : 141.19	78.15 53.56 : 141.19	75.66 53.56 : 141.19	72.63 53.56 : 141.19	108.71 53.56 : 141.19	90.93 53.56 : 141.19
3:3 FTCA (Raw)	TM440	74.9 50.54 : 133.25	91.66 50.54 : 133.25	89.0 50.54 : 133.25	71.3 50.54 : 133.25	105.82 50.54 : 133.25	100.88 50.54 : 133.25
4:2 FTS (Raw)	TM440	84.44 56.34 : 145.91	83.38 56.34 : 145.91	76.91 56.34 : 145.91	70.24 56.34 : 145.91	103.53 56.34 : 145.91	103.53 56.34 : 145.91
5:3 FTCA (Raw)	TM440	84.8 52.66 : 130.08	87.23 52.66 : 130.08	89.67 52.66 : 130.08	66.99 52.66 : 130.08	96.75 52.66 : 130.08	91.07 52.66 : 130.08
6:2 FTAB (Raw)	TM440	17.43 38.50 : 101.50	43.88 38.50 : 101.50	47.25 38.50 : 101.50	27.58 38.50 : 101.50	37.72 38.50 : 101.50	36.24 38.50 : 101.50
6:2 FTS (Raw)	TM440	77.28 54.79 : 144.46	77.8 54.79 : 144.46	76.2 54.79 : 144.46	69.25 54.79 : 144.46	97.66 54.79 : 144.46	94.38 54.79 : 144.46
7:3 FTCA (Raw)	TM440	75.34 48.60 : 128.14	76.9 48.60 : 128.14	79.41 48.60 : 128.14	72.42 48.60 : 128.14	85.96 48.60 : 128.14	91.6 48.60 : 128.14
8:2 diPAP (Raw)	TM440	79.47 56.03 : 147.72	73.92 56.03 : 147.72	84.79 56.03 : 147.72	70.52 56.03 : 147.72	92.86 56.03 : 147.72	86.93 56.03 : 147.72
8:2 FTS (Raw)	TM440	80.13 55.74 : 146.96	76.87 55.74 : 146.96	73.79 55.74 : 146.96	74.22 55.74 : 146.96	98.61 55.74 : 146.96	88.69 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	78.72 54.59 : 143.91	71.69 54.59 : 143.91	72.13 54.59 : 143.91	64.95 54.59 : 143.91	102.02 54.59 : 143.91	82.55 54.59 : 143.91
ADONA (Raw)	TM440	75.2 54.01 : 132.33	79.35 54.01 : 132.33	71.45 54.01 : 132.33	60.7 54.01 : 132.33	107.12 54.01 : 132.33	103.72 54.01 : 132.33
Branched PFOS (Raw)	TM440	84.99 54.09 : 142.61	72.24 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	107.08 54.09 : 142.61	94.62 54.09 : 142.61
EtFOSAA (Raw)	TM440	74.92 52.48 : 138.36	81.53 52.48 : 138.36	78.31 52.48 : 138.36	65.34 52.48 : 138.36	100.39 52.48 : 138.36	109.79 52.48 : 138.36
EtFOSE (Raw)	TM440	78.24 57.05 : 145.29	78.29 57.05 : 145.29	78.18 57.05 : 145.29	64.0 57.05 : 145.29	110.73 57.05 : 145.29	104.99 57.05 : 145.29
FBSA (Raw)	TM440	76.89 49.51 : 125.13	76.13 49.51 : 125.13	82.43 49.51 : 125.13	65.58 49.51 : 125.13	90.6 49.51 : 125.13	89.41 49.51 : 125.13
FHxSA (Raw)	TM440	72.18 50.38 : 132.82	70.56 50.38 : 132.82	76.32 50.38 : 132.82	60.43 50.38 : 132.82	91.95 50.38 : 132.82	93.02 50.38 : 132.82
HFPO-DA (Raw)	TM440	75.48 53.47 : 140.98	77.71 53.47 : 140.98	75.28 53.47 : 140.98	62.92 53.47 : 140.98	96.5 53.47 : 140.98	100.04 53.47 : 140.98
HFPO-TA (Raw)	TM440	86.28 54.77 : 144.39	80.77 54.77 : 144.39	76.51 54.77 : 144.39	129.26 44.84 : 118.21	230.33 44.84 : 118.21	232.89 44.84 : 118.21
L-PFOS (Raw)	TM440	85.16 54.09 : 142.61	72.24 54.09 : 142.61	74.71 54.09 : 142.61	67.87 54.09 : 142.61	106.65 54.09 : 142.61	87.9 54.09 : 142.61
MeFOSAA (Raw)	TM440	73.56 53.02 : 139.78	81.49 53.02 : 139.78	77.5 53.02 : 139.78	64.64 53.02 : 139.78	93.57 53.02 : 139.78	101.55 53.02 : 139.78
MeFOSE (Raw)	TM440	76.59 54.99 : 144.97	78.34 54.99 : 144.97	76.58 54.99 : 144.97	61.66 54.99 : 144.97	101.6 54.99 : 144.97	97.61 54.99 : 144.97
N-EtFOSA (Raw)	TM440	75.32 59.56 : 132.93	83.47 59.56 : 132.93	75.95 59.56 : 132.93	66.88 59.56 : 132.93	99.48 59.56 : 132.93	97.22 59.56 : 132.93
NFDHA (Raw)	TM440	80.35 57.35 : 151.20	80.82 57.35 : 151.20	80.48 57.35 : 151.20	64.9 57.35 : 151.20	106.53 57.35 : 151.20	95.18 57.35 : 151.20
N-MeFOSA (Raw)	TM440	71.69 59.19 : 133.01	78.98 59.19 : 133.01	76.38 59.19 : 133.01	66.62 59.19 : 133.01	103.69 59.19 : 133.01	98.86 59.19 : 133.01
PFBA (Raw)	TM440	81.21 52.69 : 138.91	79.43 52.69 : 138.91	78.76 52.69 : 138.91	63.43 52.69 : 138.91	108.07 52.69 : 138.91	103.31 52.69 : 138.91



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SDG: 251107-42
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Superseded Report:

PFAS in soils

		QC 3239	QC 3287	QC 3230	QC 3202	QC 3262	QC 3249
PFBS (Raw)	TM440	77.99 53.31 : 140.54	74.41 53.31 : 140.54	73.23 53.31 : 140.54	63.31 53.31 : 140.54	97.46 53.31 : 140.54	96.97 53.31 : 140.54
PFDA (Raw)	TM440	81.23 53.39 : 140.76	85.47 53.39 : 140.76	82.77 53.39 : 140.76	72.95 53.39 : 140.76	107.77 53.39 : 140.76	109.42 53.39 : 140.76
PFDoA (Raw)	TM440	72.69 52.85 : 139.34	82.36 52.85 : 139.34	78.3 52.85 : 139.34	62.49 52.85 : 139.34	104.91 52.85 : 139.34	106.4 52.85 : 139.34
PFDoS (Raw)	TM440	73.59 55.29 : 145.76	72.37 55.29 : 145.76	71.12 55.29 : 145.76	69.63 55.29 : 145.76	102.4 55.29 : 145.76	82.3 55.29 : 145.76
PFDS (Raw)	TM440	80.99 52.94 : 139.56	75.17 52.94 : 139.56	71.38 52.94 : 139.56	65.93 52.94 : 139.56	105.89 52.94 : 139.56	82.08 52.94 : 139.56
PFecHS (Raw)	TM440	71.47 50.75 : 133.80	71.9 50.75 : 133.80	75.85 50.75 : 133.80	64.09 50.75 : 133.80	83.52 50.75 : 133.80	85.45 50.75 : 133.80
PFEESA (Raw)	TM440	70.42 50.87 : 134.12	73.18 50.87 : 134.12	86.6 50.87 : 134.12	67.03 50.87 : 134.12	105.54 50.87 : 134.12	105.28 50.87 : 134.12
PFHpA (Raw)	TM440	75.62 52.61 : 138.69	82.07 52.61 : 138.69	74.3 52.61 : 138.69	66.13 52.61 : 138.69	104.62 52.61 : 138.69	104.72 52.61 : 138.69
PFHpS (Raw)	TM440	75.07 55.29 : 145.76	73.65 55.29 : 145.76	75.22 55.29 : 145.76	69.12 55.29 : 145.76	116.68 55.29 : 145.76	92.51 55.29 : 145.76
PFHxA (Raw)	TM440	79.34 54.05 : 142.50	80.99 54.05 : 142.50	78.95 54.05 : 142.50	66.22 54.05 : 142.50	108.63 54.05 : 142.50	100.23 54.05 : 142.50
PFHxDA (Raw)	TM440	77.03 52.03 : 137.17	78.23 52.03 : 137.17	73.12 52.03 : 137.17	62.84 52.03 : 137.17	102.8 52.03 : 137.17	102.21 52.03 : 137.17
PFHxS (Raw)	TM440	75.57 53.56 : 141.19	78.15 53.56 : 141.19	80.54 53.56 : 141.19	63.78 53.56 : 141.19	86.38 53.56 : 141.19	89.87 53.56 : 141.19
PFMOBA (Raw)	TM440	79.24 52.73 : 139.02	77.89 52.73 : 139.02	76.04 52.73 : 139.02	66.35 52.73 : 139.02	105.05 52.73 : 139.02	101.36 52.73 : 139.02
PFMOPra (Raw)	TM440	82.18 52.57 : 138.58	79.0 52.57 : 138.58	105.8 52.57 : 138.58	66.11 52.57 : 138.58	116.05 52.57 : 138.58	109.48 52.57 : 138.58
PFNA (Raw)	TM440	72.32 52.94 : 139.56	79.88 52.94 : 139.56	79.06 52.94 : 139.56	67.58 52.94 : 139.56	105.71 52.94 : 139.56	108.31 52.94 : 139.56
PFNS (Raw)	TM440	82.15 54.38 : 143.37	77.07 54.38 : 143.37	74.37 54.38 : 143.37	63.73 54.38 : 143.37	110.27 54.38 : 143.37	82.61 54.38 : 143.37
PFOA (Raw)	TM440	80.53 53.80 : 141.85	79.66 53.80 : 141.85	81.33 53.80 : 141.85	67.93 53.80 : 141.85	105.28 53.80 : 141.85	103.56 53.80 : 141.85
PFODA (Raw)	TM440	72.87 56.03 : 147.72	71.57 56.03 : 147.72	73.47 56.03 : 147.72	57.6 56.03 : 147.72	80.24 56.03 : 147.72	77.18 56.03 : 147.72
PFOSA (Raw)	TM440	75.62 53.10 : 140.00	76.98 53.10 : 140.00	75.17 53.10 : 140.00	63.03 53.10 : 140.00	100.69 53.10 : 140.00	97.6 53.10 : 140.00
PFPA (Raw)	TM440	78.36 53.89 : 142.06	79.38 53.89 : 142.06	75.11 53.89 : 142.06	65.17 53.89 : 142.06	112.03 53.89 : 142.06	110.29 53.89 : 142.06
PFPeS (Raw)	TM440	69.99 54.30 : 143.15	78.63 54.30 : 143.15	82.92 54.30 : 143.15	64.68 54.30 : 143.15	92.97 54.30 : 143.15	92.76 54.30 : 143.15
PFTeA (Raw)	TM440	82.98 53.06 : 139.89	86.8 53.06 : 139.89	81.78 53.06 : 139.89	73.86 53.06 : 139.89	115.11 53.06 : 139.89	108.88 53.06 : 139.89
PFTrDA (Raw)	TM440	87.87 51.70 : 136.30	95.59 51.70 : 136.30	83.76 51.70 : 136.30	82.64 51.70 : 136.30	111.09 51.70 : 136.30	102.28 51.70 : 136.30
PFTrDS (Raw)	TM440	76.88 56.24 : 148.26	75.02 56.24 : 148.26	75.65 56.24 : 148.26	69.84 56.24 : 148.26	105.72 56.24 : 148.26	82.63 56.24 : 148.26
PFUnA (Raw)	TM440	77.89 53.35 : 140.65	76.88 53.35 : 140.65	77.93 53.35 : 140.65	74.59 53.35 : 140.65	110.34 53.35 : 140.65	105.98 53.35 : 140.65
PFUnDS (Raw)	TM440	69.15 53.60 : 141.30	70.48 53.60 : 141.30	72.63 53.60 : 141.30	71.59 53.60 : 141.30	101.37 53.60 : 141.30	85.97 53.60 : 141.30



CERTIFICATE OF ANALYSIS

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SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

Component	Method Code	QC 3299
10:2 FTS (Raw)	TM440	113.65 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	112.56 53.56 : 141.19
3:3 FTCA (Raw)	TM440	97.48 50.54 : 133.25
4:2 FTS (Raw)	TM440	95.25 56.34 : 145.91
5:3 FTCA (Raw)	TM440	95.01 52.66 : 130.08
6:2 FTAB (Raw)	TM440	45.77 38.50 : 101.50
6:2 FTS (Raw)	TM440	99.79 54.79 : 144.46
7:3 FTCA (Raw)	TM440	91.72 48.60 : 128.14
8:2 diPAP (Raw)	TM440	87.13 56.03 : 147.72
8:2 FTS (Raw)	TM440	109.12 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	95.86 54.59 : 143.91
ADONA (Raw)	TM440	96.06 54.01 : 132.33
Branched PFOS (Raw)	TM440	91.39 54.09 : 142.61
EtFOSAA (Raw)	TM440	85.59 52.48 : 138.36
EtFOSE (Raw)	TM440	99.57 57.05 : 145.29
FBSA (Raw)	TM440	87.0 49.51 : 125.13
FHxSA (Raw)	TM440	87.21 50.38 : 132.82
HFPO-DA (Raw)	TM440	95.7 53.47 : 140.98
HFPO-TA (Raw)	TM440	205.25 44.84 : 118.21
L-PFOS (Raw)	TM440	88.82 54.09 : 142.61
MeFOSAA (Raw)	TM440	89.11 53.02 : 139.78
MeFOSE (Raw)	TM440	100.87 54.99 : 144.97
N-EtFOSA (Raw)	TM440	92.55 59.56 : 132.93
NFDHA (Raw)	TM440	100.09 57.35 : 151.20
N-MeFOSA (Raw)	TM440	89.47 59.19 : 133.01
PFBA (Raw)	TM440	98.15 52.69 : 138.91
PFBS (Raw)	TM440	95.96 53.31 : 140.54



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Superseded Report:

PFAS in soils

		QC 3299
PFDA (Raw)	TM440	97.75 53.39 : 140.76
PFDoA (Raw)	TM440	105.55 52.85 : 139.34
PFDoS (Raw)	TM440	96.6 55.29 : 145.76
PFDS (Raw)	TM440	103.72 52.94 : 139.56
PFecHS (Raw)	TM440	84.13 50.75 : 133.80
PFEESA (Raw)	TM440	95.41 50.87 : 134.12
PFHpA (Raw)	TM440	102.01 52.61 : 138.69
PFHpS (Raw)	TM440	99.86 55.29 : 145.76
PFHxA (Raw)	TM440	103.43 54.05 : 142.50
PFHxDA (Raw)	TM440	98.84 52.03 : 137.17
PFHxS (Raw)	TM440	89.5 53.56 : 141.19
PFMOBA (Raw)	TM440	103.72 52.73 : 139.02
PFMOPra (Raw)	TM440	109.06 52.57 : 138.58
PFNA (Raw)	TM440	104.15 52.94 : 139.56
PFNS (Raw)	TM440	94.2 54.38 : 143.37
PFOA (Raw)	TM440	101.23 53.80 : 141.85
PFODA (Raw)	TM440	86.22 56.03 : 147.72
PFOSA (Raw)	TM440	89.91 53.10 : 140.00
PFPA (Raw)	TM440	105.61 53.89 : 142.06
PFPeS (Raw)	TM440	96.78 54.30 : 143.15
PFTeA (Raw)	TM440	105.18 53.06 : 139.89
PFTrDA (Raw)	TM440	105.37 51.70 : 136.30
PFTrDS (Raw)	TM440	96.05 56.24 : 148.26
PFUnA (Raw)	TM440	96.26 53.35 : 140.65
PFUnDS (Raw)	TM440	97.46 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3244
11Cl-PF3OUdS (763051-92-9)	TM434	115.14 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	91.02 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	100.2 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	82.9 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	72.81 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	108.33 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	91.96 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	96.46 82.68 : 128.35
9Cl-PF3ONS (756426-58-1)	TM434	98.59 69.20 : 147.13
ADONA (919005-14-4)	TM434	95.99 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	103.72 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	1078.33 67.47 : 136.89
FBSA (30334-69-1)	TM434	91.38 63.70 : 143.28
FHxSA (41997-13-1)	TM434	106.42 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	91.21 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	103.18 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	106.17 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	91.38 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	103.01 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	102.77 57.83 : 132.08
NFDHA (151772-58-6)	TM434	107.04 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	107.5 61.69 : 135.49
PFBA (375-22-4)	TM434	105.04 74.68 : 133.63
PFBS (375-73-5)	TM434	95.32 74.09 : 133.79
PFDA (335-76-2)	TM434	103.28 72.39 : 135.76
PFDaA (307-55-1)	TM434	93.56 58.06 : 148.21
PFDoS (79780-39-5)	TM434	124.33 74.76 : 130.94



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

		QC 3244
PFDS (335-77-3)	TM434	115.26 58.61 : 140.44
PFecHS (646-83-3)	TM434	91.95 76.93 : 133.25
PFEESA (113507-82-7)	TM434	92.01 62.25 : 138.08
PFHpA (375-85-9)	TM434	97.48 75.71 : 136.46
PFHpS (375-92-8)	TM434	107.84 76.13 : 132.38
PFHxA (307-24-4)	TM434	98.85 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	98.85 71.24 : 136.49
PFHxS (355-46-4)	TM434	102.47 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	99.46 76.41 : 130.26
PFMOPra (377-73-1)	TM434	104.68 65.74 : 128.74
PFNA (375-95-1)	TM434	109.94 75.01 : 133.06
PFNS (68259-12-1)	TM434	108.46 74.74 : 129.26
PFOA (335-67-1)	TM434	97.54 74.76 : 136.11
PFODA (16517-11-6)	TM434	9.6 53.58 : 141.25
PFOSA (754-91-6)	TM434	97.96 76.54 : 135.04
PFPA (2706-90-3)	TM434	93.66 77.89 : 134.66
PFPeS (2706-91-4)	TM434	109.8 69.49 : 132.71
PFTeA (376-06-7)	TM434	97.2 61.66 : 143.71
PFTrDA (72629-94-8)	TM434	81.11 67.04 : 136.04
PFTrDS (791563-89-8)	TM434	124.92 76.88 : 133.35
PFUnA (2058-94-8)	TM434	100.55 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	124.96 71.45 : 127.25

pH

Component	Method Code	QC 3254	QC 3256	QC 3258	QC 3260	QC 3262	QC 3242
pH	TM133	100.37 95.29 : 105.24	99.72 95.29 : 105.24	99.36 95.29 : 105.24	99.89 95.29 : 105.24	99.61 95.29 : 105.24	98.31 95.29 : 105.24



CERTIFICATE OF ANALYSIS

Validated

SDG: 251107-42
Client Ref.: UK-70100310

Report Number: 784121
Location: Thornton Phase 3

Superseded Report:

pH

Component	Method Code	QC 3244	QC 3246
pH	TM133	99.63 95.29 : 105.24	99.48 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3282	QC 3267	QC 3294	QC 3216	QC 3226	QC 3245
Total Organic Carbon	TM132	95.5 93.61 : 106.00	96.9 93.61 : 106.00	97.04 93.61 : 106.00	96.98 93.61 : 106.00	97.85 93.61 : 106.00	96.45 93.61 : 106.00

Component	Method Code	QC 3247	QC 3255	QC 3257
Total Organic Carbon	TM132	95.97 93.61 : 106.00	96.69 93.61 : 106.00	96.04 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251107-42
Client Ref: UK-70100310

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Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 27 November 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251110-24
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 784214
Order Number: UK-70100310

This report has been revised and directly supersedes 784031 in its entirety.

We received 5 samples on Friday November 07, 2025 and 5 of these samples were scheduled for analysis which was completed on Thursday November 27, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-24

Report Number: 784214

Superseded Report: 784031

Client Ref.: UK-70100310

Location: Thornton Phase 3

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32430497	GR03-SP331-B-S		0.10 - 0.60	06/11/2025
32430501	GR04-SP406-C	ES	0.00 - 0.10	05/11/2025
32430506	GR04-SP406-C	WS	0.00 - 0.50	05/11/2025
32430510	GR04-SP406-C	ES	0.20 - 0.30	05/11/2025
32430513	GR04-SP406-C	ES	0.40 - 0.50	05/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-24
Client Ref.: UK-70100310

Report Number: 784214
Location: Thornton Phase 3

Superseded Report: 784031

Results Legend



Test



No Determination
Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS in soils	All	NDPs: 0 Tests: 3		X		X	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 2	X		X		
pH	All	NDPs: 0 Tests: 3		X		X	X
Sample description	All	NDPs: 0 Tests: 3		X		X	X
Total Organic Carbon	All	NDPs: 0 Tests: 3		X		X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-24
Client Ref.: UK-70100310

Report Number: 784214
Location: Thornton Phase 3

Superseded Report: 784031

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32430501	GR04-SP406-C	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32430510	GR04-SP406-C	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32430513	GR04-SP406-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-24
Client Ref.: UK-70100310

Report Number: 784214
Location: Thornton Phase 3

Superseded Report: 784031

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP331-B-S 0.10 - 0.60 Process Water (PR) 06/11/2025 07/11/2025 251110-24 32430497	GR04-SP406-C 0.00 - 0.10 Soil/Solid (S) 05/11/2025 07/11/2025 251110-24 32430501 ES	GR04-SP406-C 0.00 - 0.50 Process Water (PR) 05/11/2025 07/11/2025 251110-24 32430506 WS	GR04-SP406-C 0.20 - 0.30 Soil/Solid (S) 05/11/2025 07/11/2025 251110-24 32430510 ES	GR04-SP406-C 0.40 - 0.50 Soil/Solid (S) 05/11/2025 07/11/2025 251110-24 32430513 ES	
# ISO17025 accredited. mCERTS accredited.								
aq Aqueous / settled sample.								
diss.filt Dissolved / filtered sample.								
tot.unfiltTotal / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002		<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001		<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005		<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001		<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001		<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001		<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003		<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001		<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001		<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002		<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001		<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001		<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001		<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005		<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001		<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001		<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001		<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065		<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001		<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001		<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001		<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002		<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005		<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002		<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@	<0.002	@		
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005		<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065		<0.00065			
Branched PFOS	<0.00065 µg/l	TM434	<0.00065		<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@	<0.002	@		
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002		<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001		<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001		<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001		<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-24
Client Ref.: UK-70100310

Report Number: 784214
Location: Thornton Phase 3

Superseded Report: 784031

Results Legend			Customer Sample Ref.		GR03-SP331-B-S	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*5@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.60 Process Water (PR) 06/11/2025 07/11/2025 251110-24 32430497	0.00 - 0.10 Soil/Solid (S) 05/11/2025 07/11/2025 251110-24 32430501 ES	0.00 - 0.50 Process Water (PR) 05/11/2025 07/11/2025 251110-24 32430506 WS	0.20 - 0.30 Soil/Solid (S) 05/11/2025 07/11/2025 251110-24 32430510 ES	0.40 - 0.50 Soil/Solid (S) 05/11/2025 07/11/2025 251110-24 32430513 ES	
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002		<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002		<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003		<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002		<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002		<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001		<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002		<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002		<0.002			
PFHxA (67905-19-5)	<0.001 µg/l	TM434			<0.001		<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01		<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434			<0.001		<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01		<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001		<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434			<0.001		<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01		<0.01			
Total PFOS	<0.00065 µg/l	TM434			<0.00065		<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434			<0.09		<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001		<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001		<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024				30		23	19	
Soil Organic Matter (SOM)	<0.35 %	TM132				8.33		3.95	1.52	
pH	1 pH Units	TM133				5.94		6.54	6.79	
PFBA (375-22-4)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440				<0.8		<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440				<1.8		<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440				<1		<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440				<0.5		<0.5	<0.5	



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Results Legend			Customer Sample Ref.	GR03-SP331-B-S	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.10 - 0.60 Process Water (PR) 06/11/2025	0.00 - 0.10 Soil/Solid (S) 05/11/2025	0.00 - 0.50 Process Water (PR) 05/11/2025	0.20 - 0.30 Soil/Solid (S) 05/11/2025	0.40 - 0.50 Soil/Solid (S) 05/11/2025	
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251110-24	251110-24	251110-24	251110-24	251110-24	
*** 6:2 FTAB (see appendix)				32430497	32430501	32430506	32430510	32430513	
1-4**@ Sample deviation (see appendix)					ES	WS	ES	ES	
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			6.69		7.2	4.28	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	6.39	
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			1.13		<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	



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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	Analysis of PFAS in Solid matrices
TM434	Analysis of PFAS in Liquid matrices

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s)	32430497	32430501	32430506	32430510	32430513
Customer Sample Ref.	GR03-SP331-B-S	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C	GR04-SP406-C
AGS Ref.		ES	WS	ES	ES
Depth	0.10 - 0.60	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50
Type	Process	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		25-Nov-2025		25-Nov-2025	25-Nov-2025
PFAS Liquids (Full Suite)	26-Nov-2025		27-Nov-2025		
pH		17-Nov-2025		16-Nov-2025	17-Nov-2025
Sample description		11-Nov-2025		11-Nov-2025	11-Nov-2025
Total Organic Carbon		20-Nov-2025		20-Nov-2025	20-Nov-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3220	QC 3234
10:2 FTS (Raw)	TM440	86.76 53.10 : 140.00	98.59 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	98.7 53.56 : 141.19	114.28 53.56 : 141.19
3:3 FTCA (Raw)	TM440	98.57 50.54 : 133.25	111.05 50.54 : 133.25
4:2 FTS (Raw)	TM440	96.41 56.34 : 145.91	106.84 56.34 : 145.91
5:3 FTCA (Raw)	TM440	93.65 52.66 : 130.08	103.21 52.66 : 130.08
6:2 FTAB (Raw)	TM440	33.29 38.50 : 101.50	42.89 38.50 : 101.50
6:2 FTS (Raw)	TM440	95.46 54.79 : 144.46	98.53 54.79 : 144.46
7:3 FTCA (Raw)	TM440	88.31 48.60 : 128.14	102.02 48.60 : 128.14
8:2 diPAP (Raw)	TM440	89.27 56.03 : 147.72	99.57 56.03 : 147.72
8:2 FTS (Raw)	TM440	117.02 55.74 : 146.96	126.31 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	88.53 54.59 : 143.91	111.58 54.59 : 143.91
ADONA (Raw)	TM440	97.0 54.01 : 132.33	105.11 54.01 : 132.33
Branched PFOS (Raw)	TM440	95.58 54.09 : 142.61	102.53 54.09 : 142.61
EtFOSAA (Raw)	TM440	112.33 52.48 : 138.36	108.66 52.48 : 138.36
EtFOSE (Raw)	TM440	106.79 57.05 : 145.29	110.5 57.05 : 145.29
FBFA (Raw)	TM440	87.88 49.51 : 125.13	93.96 49.51 : 125.13
FHxSA (Raw)	TM440	79.18 50.38 : 132.82	100.23 50.38 : 132.82
HFPO-DA (Raw)	TM440	97.38 53.47 : 140.98	108.78 53.47 : 140.98
HFPO-TA (Raw)	TM440	223.04 44.84 : 118.21	235.21 44.84 : 118.21
L-PFOS (Raw)	TM440	89.41 54.09 : 142.61	111.78 54.09 : 142.61
MeFOSAA (Raw)	TM440	95.52 53.02 : 139.78	122.82 53.02 : 139.78
MeFOSE (Raw)	TM440	101.93 54.99 : 144.97	104.21 54.99 : 144.97
N-EtFOSA (Raw)	TM440	95.23 59.56 : 132.93	107.66 59.56 : 132.93
NFDHA (Raw)	TM440	98.07 57.35 : 151.20	109.82 57.35 : 151.20
N-MeFOSA (Raw)	TM440	97.49 59.19 : 133.01	101.54 59.19 : 133.01
PFBA (Raw)	TM440	99.77 52.69 : 138.91	107.02 52.69 : 138.91



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PFAS in soils

		QC 3220	QC 3234
PFBS (Raw)	TM440	89.47 53.31 : 140.54	105.17 53.31 : 140.54
PFDA (Raw)	TM440	107.03 53.39 : 140.76	114.7 53.39 : 140.76
PFDoA (Raw)	TM440	99.49 52.85 : 139.34	121.85 52.85 : 139.34
PFDoS (Raw)	TM440	90.45 55.29 : 145.76	103.59 55.29 : 145.76
PFDS (Raw)	TM440	85.05 52.94 : 139.56	114.38 52.94 : 139.56
PFecHS (Raw)	TM440	94.11 50.75 : 133.80	108.93 50.75 : 133.80
PFEESA (Raw)	TM440	95.89 50.87 : 134.12	110.79 50.87 : 134.12
PFHpA (Raw)	TM440	107.99 52.61 : 138.69	106.51 52.61 : 138.69
PFHpS (Raw)	TM440	99.74 55.29 : 145.76	117.05 55.29 : 145.76
PFHxA (Raw)	TM440	98.27 54.05 : 142.50	101.84 54.05 : 142.50
PFHxDA (Raw)	TM440	100.29 52.03 : 137.17	104.71 52.03 : 137.17
PFHxS (Raw)	TM440	100.31 53.56 : 141.19	97.88 53.56 : 141.19
PFMOBA (Raw)	TM440	100.1 52.73 : 139.02	110.39 52.73 : 139.02
PFMOPrA (Raw)	TM440	109.2 52.57 : 138.58	115.09 52.57 : 138.58
PFNA (Raw)	TM440	96.64 52.94 : 139.56	111.88 52.94 : 139.56
PFNS (Raw)	TM440	79.73 54.38 : 143.37	105.2 54.38 : 143.37
PFOA (Raw)	TM440	103.95 53.80 : 141.85	107.11 53.80 : 141.85
PFODA (Raw)	TM440	83.63 56.03 : 147.72	108.1 56.03 : 147.72
PFOSA (Raw)	TM440	99.32 53.10 : 140.00	98.07 53.10 : 140.00
PFFPA (Raw)	TM440	101.86 53.89 : 142.06	111.88 53.89 : 142.06
PFPeS (Raw)	TM440	107.95 54.30 : 143.15	116.84 54.30 : 143.15
PFTeA (Raw)	TM440	112.23 53.06 : 139.89	113.1 53.06 : 139.89
PFTrDA (Raw)	TM440	103.04 51.70 : 136.30	104.2 51.70 : 136.30
PFTrDS (Raw)	TM440	94.16 56.24 : 148.26	118.81 56.24 : 148.26
PFUnA (Raw)	TM440	102.01 53.35 : 140.65	106.96 53.35 : 140.65
PFUnDS (Raw)	TM440	91.87 53.60 : 141.30	124.21 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3257	QC 3288
11CI-PF3OUdS (763051-92-9)	TM434	123.79 62.16 : 138.51	102.44 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	133.19 89.89 : 130.69	89.63 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	115.91 66.54 : 140.56	98.3 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	97.79 60.34 : 133.39	83.24 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	83.31 59.12 : 129.56	72.9 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	118.39 67.48 : 129.58	103.63 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	116.09 79.83 : 133.08	87.54 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	113.73 81.70 : 132.18	94.05 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	135.96 71.98 : 136.03	94.83 69.20 : 147.13
ADONA (919005-14-4)	TM434	106.84 70.14 : 142.14	89.81 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	112.66 67.04 : 131.16	97.34 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	1150.82 67.92 : 135.38	975.54 67.47 : 136.89
FBSA (30334-69-1)	TM434	103.59 58.08 : 137.20	100.38 63.70 : 143.28
FHxSA (41997-13-1)	TM434	129.33 71.81 : 148.16	106.83 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	116.59 57.03 : 123.70	96.93 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	137.64 58.05 : 153.05	103.93 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	114.59 69.95 : 145.18	109.74 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	136.62 68.44 : 128.29	88.22 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	106.53 70.83 : 132.00	90.21 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	122.77 59.26 : 122.86	88.28 57.83 : 132.08
NFDHA (151772-58-6)	TM434	127.96 59.99 : 133.56	105.75 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	125.7 62.71 : 118.96	93.16 61.69 : 135.49
PFBA (375-22-4)	TM434	113.82 67.84 : 130.39	90.29 74.68 : 133.63
PFBS (375-73-5)	TM434	105.27 90.25 : 126.25	94.98 74.09 : 133.79
PFDA (335-76-2)	TM434	120.11 68.94 : 132.99	90.44 72.39 : 135.76
PFDaA (307-55-1)	TM434	120.98 66.19 : 135.04	96.75 58.06 : 148.21
PFDoS (79780-39-5)	TM434	121.56 65.90 : 146.45	100.63 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3257	QC 3288
PFDS (335-77-3)	TM434	129.32 64.84 : 138.49	109.1 58.61 : 140.44
PFecHS (646-83-3)	TM434	98.43 81.53 : 139.35	89.5 76.93 : 133.25
PFEESA (113507-82-7)	TM434	113.13 67.24 : 129.19	91.48 62.25 : 138.08
PFHpA (375-85-9)	TM434	114.88 72.89 : 141.36	94.78 75.71 : 136.46
PFHpS (375-92-8)	TM434	102.19 72.19 : 155.36	99.19 76.13 : 132.38
PFHxA (307-24-4)	TM434	116.86 71.79 : 135.84	95.22 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	123.17 89.96 : 128.14	93.23 71.24 : 136.49
PFHxS (355-46-4)	TM434	108.0 84.41 : 134.44	111.15 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	126.05 84.99 : 139.74	96.83 76.41 : 130.26
PFMOPra (377-73-1)	TM434	135.52 80.40 : 136.73	105.29 65.74 : 128.74
PFNA (375-95-1)	TM434	117.75 68.61 : 128.99	91.04 75.01 : 133.06
PFNS (68259-12-1)	TM434	137.58 70.70 : 130.93	106.1 74.74 : 129.26
PFOA (335-67-1)	TM434	121.58 74.09 : 143.61	90.05 74.76 : 136.11
PFODA (16517-11-6)	TM434	15.24 68.70 : 175.88	10.41 53.58 : 141.25
PFOSA (754-91-6)	TM434	118.15 67.59 : 130.51	93.37 76.54 : 135.04
PFPA (2706-90-3)	TM434	122.4 74.20 : 140.58	97.39 77.89 : 134.66
PFPeS (2706-91-4)	TM434	105.5 76.19 : 137.91	105.07 69.49 : 132.71
PFTeA (376-06-7)	TM434	138.5 66.36 : 144.96	97.23 61.66 : 143.71
PFTrDA (72629-94-8)	TM434	113.5 71.98 : 130.25	97.43 67.04 : 136.04
PFTrDS (791563-89-8)	TM434	122.64 68.38 : 157.48	106.03 76.88 : 133.35
PFUnA (2058-94-8)	TM434	127.11 65.55 : 141.45	99.57 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	119.9 85.84 : 139.76	110.34 71.45 : 127.25

pH

Component	Method Code	QC 3286	QC 3248
pH	TM133	99.78 95.29 : 105.24	99.8 95.29 : 105.24



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Total Organic Carbon

Component	Method Code	QC 3220	QC 3222
Total Organic Carbon	TM132	96.97 93.61 : 106.00	96.53 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 03 December 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251110-25
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 784761
Order Number: UK-70100310

This report has been revised and directly supersedes 784127 in its entirety.

We received 47 samples on Saturday November 08, 2025 and 45 of these samples were scheduled for analysis which was completed on Wednesday December 03, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32430537	GR03-SP308-A	ES	0.10 - 0.20	07/11/2025
32430567	GR03-SP308-A	ESALS	0.30 - 0.40	07/11/2025
32430617	GR03-SP308-A	ESGeotextile	0.50 - 0.50	07/11/2025
32430593	GR03-SP308-A	ES	0.50 - 0.60	07/11/2025
32430588	GR03-SP316-A	ESALS	0.10 - 0.20	07/11/2025
32430590	GR03-SP316-A	ES	0.30 - 0.40	07/11/2025
32430595	GR03-SP316-A	ES	0.50 - 0.60	07/11/2025
32430639	GR03-SP308-B	ES	0.00 - 0.10	07/11/2025
32430641	GR03-SP308-B	ES	0.30 - 0.40	07/11/2025
32430643	GR03-SP308-B	ES	0.40 - 0.50	07/11/2025
32430598	GR03-SP316-B	ES	0.00 - 0.10	07/11/2025
32430600	GR03-SP316-B	WS	0.00 - 0.50	07/11/2025
32430603	GR03-SP316-B	ES	0.30 - 0.40	07/11/2025
32430605	GR03-SP316-B	ES	0.40 - 0.50	07/11/2025
32430645	GR03-SP308-C	WS	0.00 - 0.60	07/11/2025
32430648	GR03-SP308-C	ES	0.10 - 0.20	07/11/2025
32430542	GR03-SP308-C	ES	0.20 - 0.30	07/11/2025
32430547	GR03-SP308-C	ES	0.50 - 0.60	07/11/2025
32430607	GR03-SP316-C-S1	ESA1	0.00 - 0.10	07/11/2025
32430609	GR03-SP316-C-S1	ESA2	0.00 - 0.10	07/11/2025
32430611	GR03-SP316-C-S1	ES	0.20 - 0.30	07/11/2025
32430613	GR03-SP316-C-S1	ES	0.40 - 0.50	07/11/2025
32430615	GR03-SP316-C-S2	ESA1	0.00 - 0.10	07/11/2025
32430620	GR03-SP316-C-S2	ESA2	0.00 - 0.10	07/11/2025
32430622	GR03-SP316-D	ESALS	0.10 - 0.20	07/11/2025
32430624	GR03-SP316-D	ES	0.30 - 0.40	07/11/2025
32430626	GR03-SP316-D	WT	0.30 - 0.40	07/11/2025
32430630	GR03-SP316-D	ES	0.50 - 0.60	07/11/2025
32430549	GR03-SP308-D-S1	ES	0.00 - 0.10	07/11/2025
32430552	GR03-SP308-D-S1	ES	0.20 - 0.30	07/11/2025
32430554	GR03-SP308-D-S1	ESA1	0.40 - 0.50	07/11/2025
32430556	GR03-SP308-D-S1	ESA2	0.40 - 0.50	07/11/2025
32430558	GR03-SP308-D-S2	ESA1	0.40 - 0.50	07/11/2025
32430561	GR03-SP308-D-S2	ESA2	0.40 - 0.50	07/11/2025
32430563	GR03-SP308-E	ESALS	0.10 - 0.20	07/11/2025
32430565	GR03-SP308-E	ES	0.30 - 0.40	07/11/2025
32430569	GR03-SP308-E	ES	0.50 - 0.60	07/11/2025
32430632	GR03-SP316-E	ES	0.10 - 0.20	07/11/2025
32430635	GR03-SP316-E	ESALS	0.20 - 0.30	07/11/2025
32430637	GR03-SP316-E	ES	0.50 - 0.60	07/11/2025
32430572	GR03-SP308-F	ES	0.00 - 0.10	07/11/2025
32430574	GR03-SP308-F	ES	0.30 - 0.40	07/11/2025
32430576	GR03-SP308-F	ES	0.40 - 0.50	07/11/2025
32430578	GR03-SP308-G	ES	0.10 - 0.20	07/11/2025
32430580	GR03-SP308-G	WT	0.10 - 0.20	07/11/2025
32430583	GR03-SP308-G	ES	0.20 - 0.30	07/11/2025
32430586	GR03-SP308-G	ES	0.50 - 0.60	07/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
32430609	GR03-SP316-C-S1	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32430607	GR03-SP316-C-S1	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32430547	GR03-SP308-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32430542	GR03-SP308-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S
32430648	GR03-SP308-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
32430645	GR03-SP308-C	WS	0.00 - 0.60	50ml digitube (ALE001)	PW
32430605	GR03-SP316-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32430603	GR03-SP316-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32430600	GR03-SP316-B	WS	0.00 - 0.50	50ml digitube (ALE001)	PW
32430598	GR03-SP316-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32430643	GR03-SP308-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S
32430641	GR03-SP308-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32430639	GR03-SP308-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S
32430595	GR03-SP316-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32430588	GR03-SP316-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32430593	GR03-SP308-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S
32430567	GR03-SP308-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S
32430537	GR03-SP308-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S
PFAS in soils	All	NDPs: 0 Tests: 42			
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 3			
pH	All	NDPs: 0 Tests: 42			
Sample description	All	NDPs: 0 Tests: 32			
Total Organic Carbon	All	NDPs: 0 Tests: 42			

32430572	GR03-SP308-F	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430637	GR03-SP316-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X				X
32430635	GR03-SP316-E	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X				X
32430632	GR03-SP316-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430569	GR03-SP308-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430565	GR03-SP308-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430563	GR03-SP308-E	ESALS	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430561	GR03-SP308-D-S2	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430558	GR03-SP308-D-S2	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430556	GR03-SP308-D-S1	ESA2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430554	GR03-SP308-D-S1	ESA1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430552	GR03-SP308-D-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430549	GR03-SP308-D-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430630	GR03-SP316-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X				X
32430626	GR03-SP316-D	WT	0.30 - 0.40	50ml digitube (ALE001)	PW		X							
32430624	GR03-SP316-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430622	GR03-SP316-D	ESALS	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430620	GR03-SP316-C-S2	ESA2	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430615	GR03-SP316-C-S2	ESA1	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430613	GR03-SP316-C-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32430611	GR03-SP316-C-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS in soils

All

NDPs: 0
Tests: 42

X X X X X

pH

All

NDPs: 0
Tests: 42

X X X X X

Sample description

All

NDPs: 0
Tests: 32

X X X X X

Total Organic Carbon

All

NDPs: 0
Tests: 42

X X X X X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

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Sample Descriptions

Grain Sizes

very fine <0.063mm fine 0.063mm - 0.1mm medium 0.1mm - 2mm coarse 2mm - 10mm very coarse >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32430537	GR03-SP308-A	0.10 - 0.20	Dark Brown	Silt Loam	Glass & Stones	Vegetation
32430567	GR03-SP308-A	0.30 - 0.40	Light Brown	Sandy Clay Loam	Stones	Tile/Insulation Board
32430593	GR03-SP308-A	0.50 - 0.60	Light Brown	Silt Loam	Concrete/Aggregate	Stones
32430588	GR03-SP316-A	0.10 - 0.20	Dark Brown	Silt Loam	Glass & Stones	Vegetation
32430590	GR03-SP316-A	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32430595	GR03-SP316-A	0.50 - 0.60	Light Brown	Silt Loam	Stones	Vegetation
32430639	GR03-SP308-B	0.00 - 0.10	Dark Brown	Silty Clay Loam	Tile/Insulation Board	Stones
32430641	GR03-SP308-B	0.30 - 0.40	Light Brown	Silty Clay Loam	Tile/Insulation Board	Stones
32430643	GR03-SP308-B	0.40 - 0.50	Light Brown	Silty Clay Loam	Brick	Stones
32430598	GR03-SP316-B	0.00 - 0.10	Dark Brown	Silt Loam	Brick	Stones
32430603	GR03-SP316-B	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32430605	GR03-SP316-B	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Vegetation
32430542	GR03-SP308-C	0.20 - 0.30	Light Brown	Silt Loam	Tile/Insulation Board	Stones
32430547	GR03-SP308-C	0.50 - 0.60	Light Brown	Clay Loam	Stones	Vegetation
32430648	GR03-SP308-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Brick	Stones
32430607	GR03-SP316-C-S1	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32430609	GR03-SP316-C-S1	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32430611	GR03-SP316-C-S1	0.20 - 0.30	Dark Brown	Sandy Loam	Brick	Vegetation
32430613	GR03-SP316-C-S1	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Vegetation	None
32430615	GR03-SP316-C-S2	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32430620	GR03-SP316-C-S2	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32430622	GR03-SP316-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32430624	GR03-SP316-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32430630	GR03-SP316-D	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Brick
32430549	GR03-SP308-D-S1	0.00 - 0.10	Dark Brown	Sandy Silt Loam	Vegetation	None
32430552	GR03-SP308-D-S1	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32430554	GR03-SP308-D-S1	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	None
32430556	GR03-SP308-D-S1	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Brick
32430558	GR03-SP308-D-S2	0.40 - 0.50	Light Brown	Sandy Clay Loam	Brick	Stones
32430561	GR03-SP308-D-S2	0.40 - 0.50	Light Brown	Sandy Clay Loam	Brick	Stones
32430563	GR03-SP308-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32430565	GR03-SP308-E	0.30 - 0.40	Grey	Silty Clay	Vegetation	Stones
32430569	GR03-SP308-E	0.50 - 0.60	Light Brown	Silty Clay	Stones	Vegetation
32430632	GR03-SP316-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32430635	GR03-SP316-E	0.20 - 0.30	Dark Brown	Silty Clay Loam	Brick	Stones
32430637	GR03-SP316-E	0.50 - 0.60	Light Brown	Silty Clay Loam	Brick	Stones
32430572	GR03-SP308-F	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32430574	GR03-SP308-F	0.30 - 0.40	Light Brown	Sandy Silt Loam	Stones	Vegetation
32430576	GR03-SP308-F	0.40 - 0.50	Light Brown	Sandy Clay Loam	Crushed Brick	Stones



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

			Colour	Description	Inclusions	Inclusions 2
32430578	GR03-SP308-G	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Stones	Vegetation
32430583	GR03-SP308-G	0.20 - 0.30	Light Brown	Sandy Silt Loam	Brick	Vegetation
32430586	GR03-SP308-G	0.50 - 0.60	Light Brown	Sandy Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP308-A	GR03-SP308-A	GR03-SP308-A	GR03-SP316-A	GR03-SP316-A	GR03-SP316-A
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)				0.10 - 0.20 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430537 ES	0.30 - 0.40 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430567 ESALS	0.50 - 0.60 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430593 ES	0.10 - 0.20 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430588 ESALS	0.30 - 0.40 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430590 ES	0.50 - 0.60 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430595 ES
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024		23	11	11	21	18	17
Soil Organic Matter (SOM)	<0.35 %	TM132		6.91 #	1.68 #	1.67 #	4.43 #	3.76 #	1.58 #
pH	1 pH Units	TM133		7.14 M	8.52 M	8.34 M	7.4 M	8.2 M	8.28 M
PFBA (375-22-4)	<0.5 µg/kg	TM440		0.694	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440		1.07	<0.5	<0.5	1.98	0.649	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.94	4.24	5.68	4.61	3.21	3.88	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.42	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.		GR03-SP308-B	GR03-SP308-B	GR03-SP308-B	GR03-SP316-B	GR03-SP316-B	GR03-SP316-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
diss.filt	Dissolved / filtered sample.				08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025
tot.unfilt	Total / unfiltered sample.				251110-25	251110-25	251110-25	251110-25	251110-25	251110-25
* Subcontracted - refer to subcontractor report for accreditation status.					32430639	32430641	32430643	32430598	32430600	32430603
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							0.00503	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

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SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.		GR03-SP308-B	GR03-SP308-B	GR03-SP308-B	GR03-SP316-B	GR03-SP316-B	GR03-SP316-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430639 ES	0.30 - 0.40 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430641 ES	0.40 - 0.50 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430643 ES	0.00 - 0.10 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430598 ES	0.00 - 0.50 Process Water (PR) 07/11/2025 08/11/2025 251110-25 32430600 WS	0.30 - 0.40 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430603 ES	
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	26	20	12	24			17	
Soil Organic Matter (SOM)	<0.35 %	TM132	7.12	4.14	2.83	13.4			7.05	
pH	1 pH Units	TM133	7.32	8.2	8.4	8.04			8.24	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	1.07			<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8			<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	0.683	<0.5	<0.5	2.45			0.889	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8			<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1			<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5			<0.5	



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SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.	GR03-SP308-B	GR03-SP308-B	GR03-SP308-B	GR03-SP316-B	GR03-SP316-B	GR03-SP316-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 07/11/2025	0.30 - 0.40 Soil/Solid (S) 07/11/2025	0.40 - 0.50 Soil/Solid (S) 07/11/2025	0.00 - 0.10 Soil/Solid (S) 07/11/2025	0.00 - 0.50 Process Water (PR) 07/11/2025	0.30 - 0.40 Soil/Solid (S) 07/11/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.				08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251110-25	251110-25	251110-25	251110-25	251110-25	251110-25
*** 6:2 FTAB (see appendix)				32430639	32430641	32430643	32430598	32430600	32430603
1-4**@ Sample deviation (see appendix)				ES	ES	ES	ES	WS	ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		2.66	5.05	5.82	3.2		5.44
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		1.58	1.77	<0.6	<0.6		0.836
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.	GR03-SP316-B	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP316-C-S1
# ISO17025 accredited.	M mCERTS accredited.			0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
aq Aqueous / settled sample.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt Dissolved / filtered sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025
*** 6:2 FTAB (see appendix)				251110-25	251110-25	251110-25	251110-25	251110-25	251110-25
1-4**@ Sample deviation (see appendix)				32430605	32430645	32430648	32430542	32430547	32430607
				ES	WS	ES	ES	ES	ESA1
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434		<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434		<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434		<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.002	@				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		<0.00065					
Branched PFOS	<0.00065 µg/l	TM434		<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.002	@				
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.		GR03-SP316-B	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP316-C-S1
#	ISO17025 accredited.	m	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.40 - 0.50 Soil/Solid (S) 07/11/2025	0.00 - 0.60 Process Water (PR) 07/11/2025	0.10 - 0.20 Soil/Solid (S) 07/11/2025	0.20 - 0.30 Soil/Solid (S) 07/11/2025	0.50 - 0.60 Soil/Solid (S) 07/11/2025	0.00 - 0.10 Soil/Solid (S) 07/11/2025
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted - refer to subcontractor report for accreditation status.				08/11/2025 251110-25 32430605 ES	08/11/2025 251110-25 32430645 WS	08/11/2025 251110-25 32430648 ES	08/11/2025 251110-25 32430542 ES	08/11/2025 251110-25 32430547 ES	08/11/2025 251110-25 32430607 ESA1
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
***	6:2 FTAB (see appendix)									
1-4**	Sample deviation (see appendix)									
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			20		19	17	14	24
Soil Organic Matter (SOM)	<0.35 %	TM132			3.02		7.5	4.41	2.79	14
pH	1 pH Units	TM133			7.7		6.71	7.62	8.41	7.54
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	1.34
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		1.33	<0.5	<0.5	3.84
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.	GR03-SP316-B	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP316-C-S1
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.			Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	8.02		1.38	4.06	5.27	4.82	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10		<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	0.694	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9		<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4		<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	0.628		<0.5	<0.5	<0.5	0.751	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6		1.33	<0.6	<0.6	1.12	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4		<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7		<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.	GR03-SP316-C-S1	GR03-SP316-C-S1	GR03-SP316-C-S1	GR03-SP316-C-S2	GR03-SP316-C-S2	GR03-SP316-D
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 07/11/2025	0.20 - 0.30 Soil/Solid (S) 07/11/2025	0.40 - 0.50 Soil/Solid (S) 07/11/2025	0.00 - 0.10 Soil/Solid (S) 07/11/2025	0.00 - 0.10 Soil/Solid (S) 07/11/2025	0.10 - 0.20 Soil/Solid (S) 07/11/2025
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	27	14	19	24	26	15	
Soil Organic Matter (SOM)	<0.35 %	TM132	10.1	5.4	3.02	10.3	10.5	5.38	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.55	8.32	7.89	7.09	7.17	8.26	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	1.63	<0.5	0.752	1.79	1.61	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	3.9	1.05	1.13	4.58	4.36	0.778	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	5	3.22	19.2	7.13	5.14	1.48	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	0.889	0.74	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	0.821	<0.5	1.03	0.945	0.836	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.13	<0.6	0.948	1.12	0.837	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.	GR03-SP316-D	GR03-SP316-D	GR03-SP316-D	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S1
# ISO17025 accredited.				0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434		<0.002					
PFMOPrA (377-73-1)	<0.001 µg/l	TM434		<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434		<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434		<0.001					
PFMOBA (863090-89-5)	<0.001 µg/l	TM434		<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434		<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434		<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434		<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434		<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434		<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434		<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434		<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434		<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434		<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434		<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434		<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434		<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434		<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434		<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434		<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434		<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434		<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434		<0.005					
PFDA (335-76-2)	<0.002 µg/l	TM434		<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434		<0.002	@				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434		<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434		<0.00065					
Branched PFOS	<0.00065 µg/l	TM434		<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434		<0.002	@				
PFUnA (2058-94-8)	<0.002 µg/l	TM434		<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434		<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434		<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434		<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.		GR03-SP316-D	GR03-SP316-D	GR03-SP316-D	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
diss.filt	Dissolved / filtered sample.				08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025
tot.unfilt	Total / unfiltered sample.				251110-25	251110-25	251110-25	251110-25	251110-25	251110-25
* Subcontracted - refer to subcontractor report for accreditation status.					32430624	32430626	32430630	32430549	32430552	32430554
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ES	ES	ESA1
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			17		18	30	20	13
Soil Organic Matter (SOM)	<0.35 %	TM132			4.47		2.48	9.12	4.95	2.5
pH	1 pH Units	TM133			8.17		7.94	7.41	8.36	8.39
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	0.811	<0.5	0.965
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.32		0.734	1.47	<0.5	4.53
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	1.04
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.	GR03-SP316-D	GR03-SP316-D	GR03-SP316-D	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S1
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40 Soil/Solid (S) 07/11/2025	0.30 - 0.40 Process Water (PR) 07/11/2025	0.50 - 0.60 Soil/Solid (S) 07/11/2025	0.00 - 0.10 Soil/Solid (S) 07/11/2025	0.20 - 0.30 Soil/Solid (S) 07/11/2025	0.40 - 0.50 Soil/Solid (S) 07/11/2025	
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.54		4.6	4.78	6.52	40.5	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10		<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9		<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4		<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5		<0.5	0.823	<0.5	0.897	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	0.869	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	0.865		<0.6	3.27	2.12	11.4	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4		<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	1.28	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	1.88	
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	3.2	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7		<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	2.53	
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP308-D-S1	GR03-SP308-D-S2	GR03-SP308-D-S2	GR03-SP308-E	GR03-SP308-E	GR03-SP308-E
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)				0.40 - 0.50 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430556 ESA2	0.40 - 0.50 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430558 ESA1	0.40 - 0.50 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430561 ESA2	0.10 - 0.20 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430563 ESALS	0.30 - 0.40 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430565 ES	0.50 - 0.60 Soil/Solid (S) 07/11/2025 08/11/2025 251110-25 32430569 ES
Component	LOD/Units	Method		12	13	13	28	22	16
Moisture Content Ratio (% of as received sample)	%	PM024		12	13	13	28	22	16
Soil Organic Matter (SOM)	<0.35 %	TM132		2.83 #	1.59 #	2.88 #	9.57 #	4.59 #	1.46 #
pH	1 pH Units	TM133		8.55 M	8.28 M	8.32 M	7.34 M	8.18 M	8.36 M
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	25.4	79.6	15.2	3.48	4.82	11.9	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	2.3	1.27	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend			Customer Sample Ref.		GR03-SP316-E	GR03-SP316-E	GR03-SP316-E	GR03-SP308-F	GR03-SP308-F	GR03-SP308-F
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M mCERTS accredited.					Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.					07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
diss.filt Dissolved / filtered sample.					08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025
tot.unfiltTotal / unfiltered sample.					251110-25	251110-25	251110-25	251110-25	251110-25	251110-25
* Subcontracted - refer to subcontractor report for accreditation status.					32430632	32430635	32430637	32430572	32430574	32430576
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			20	20	18	26	18	13
Soil Organic Matter (SOM)	<0.35 %	TM132			3.83	5.34	1.98	9.69	3.64	1.79
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.88	8.06	8.14	7.67	8.39	8.32
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			0.678	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.55	1.08	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.44	8.98	12.6	3.81	12.6	53.1
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	6.32	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	0.648	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	1.37	0.757	0.844
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



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Validated

SDG: 251110-25
Client Ref.: UK-70100310

Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP308-G	GR03-SP308-G	GR03-SP308-G			
#	ISO17025 accredited.		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60			
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
aq	Aqueous / settled sample.		07/11/2025	07/11/2025	07/11/2025			
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.		08/11/2025	08/11/2025	08/11/2025			
* Subcontracted - refer to subcontractor report for accreditation status.			251110-25	251110-25	251110-25			
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32430578	32430583	32430586			
*** 6:2 FTAB (see appendix)			ES	ES	ES			
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	23	20	11			
Soil Organic Matter (SOM)	<0.35 %	TM132	4.62	2.6	2.98			
			#	#	#			
pH	1 pH Units	TM133	7.97	8.3	8.43			
			M	M	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440	14.9	15.7	41.9			
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.98	1.76	<0.6			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			



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SDG: 251110-25 Report Number: 784761 Superseded Report: 784127
Client Ref.: UK-70100310 Location: Thornton Phase 3

Data Amendment

Sample No. : 32430567 Date of Amendment : 12/11/2025 Authorised: Justina Luksaite Origin:

Sample Ref.	Reason	Test Name	Result Name	Units	Previous	Amended
GR03-SP308-A	Analytical/Quality Issue	Sample description	Inclusion 2)	1	Vegetation	tile/insulation board



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Report Number: 784761

Superseded Report: 784127

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Report Number: 784761
Location: Thornton Phase 3

Superseded Report: 784127

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32430537	32430567	32430593	32430588	32430590	32430595	32430639	32430641	32430643	32430598
	GR03-SP308-A	GR03-SP308-A	GR03-SP308-A	GR03-SP316-A	GR03-SP316-A	GR03-SP316-A	GR03-SP308-B	GR03-SP308-B	GR03-SP308-B	GR03-SP316-B
	ES	ESALS	ES	ESALS	ES	ES	ES	ES	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	27-Nov-2025	03-Dec-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	17-Nov-2025	25-Nov-2025
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	15-Nov-2025	17-Nov-2025
Sample description	12-Nov-2025	12-Nov-2025	11-Nov-2025	12-Nov-2025	11-Nov-2025	12-Nov-2025	11-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Total Organic Carbon	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	17-Nov-2025	20-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32430600	32430603	32430605	32430542	32430547	32430645	32430648	32430607	32430609	32430611
	GR03-SP316-B	GR03-SP316-B	GR03-SP316-B	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP316-C-S1	GR03-SP316-C-S1	GR03-SP316-C-S1
	WS	ES	ES	ES	ES	WS	ES	ESA1	ESA2	ES
	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.20 - 0.30	0.50 - 0.60	0.00 - 0.60	0.10 - 0.20	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30
Depth Type	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		25-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025		17-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025
PFAS Liquids (Full Suite)	26-Nov-2025					20-Nov-2025				
pH		17-Nov-2025	16-Nov-2025	17-Nov-2025	17-Nov-2025		15-Nov-2025	16-Nov-2025	16-Nov-2025	16-Nov-2025
Sample description		11-Nov-2025	11-Nov-2025	12-Nov-2025	11-Nov-2025		11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Total Organic Carbon		20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025		17-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32430613	32430615	32430620	32430622	32430624	32430626	32430630	32430549	32430552	32430554
	GR03-SP316-C-S1	GR03-SP316-C-S2	GR03-SP316-C-S2	GR03-SP316-D	GR03-SP316-D	GR03-SP316-D	GR03-SP316-D	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S1
	ES	ESA1	ESA2	ESALS	ES	WT	ES	ES	ES	ESA1
	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	25-Nov-2025	27-Nov-2025	24-Nov-2025		24-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025
PFAS Liquids (Full Suite)						26-Nov-2025				
pH	17-Nov-2025	16-Nov-2025	16-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	16-Nov-2025	16-Nov-2025	16-Nov-2025
Sample description	12-Nov-2025	12-Nov-2025	11-Nov-2025	12-Nov-2025	12-Nov-2025		12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025
Total Organic Carbon	20-Nov-2025	19-Nov-2025	20-Nov-2025	19-Nov-2025	20-Nov-2025		20-Nov-2025	20-Nov-2025	20-Nov-2025	19-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32430556	32430558	32430561	32430563	32430565	32430569	32430632	32430635	32430637	32430572
	GR03-SP308-D-S1	GR03-SP308-D-S2	GR03-SP308-D-S2	GR03-SP308-E	GR03-SP308-E	GR03-SP308-E	GR03-SP316-E	GR03-SP316-E	GR03-SP316-E	GR03-SP308-F
	ESA2	ESA1	ESA2	ESALS	ES	ES	ES	ESALS	ES	ES
	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	24-Nov-2025	03-Dec-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025
pH	17-Nov-2025	17-Nov-2025	16-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	16-Nov-2025
Sample description	12-Nov-2025	11-Nov-2025	11-Nov-2025	12-Nov-2025	11-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	12-Nov-2025	11-Nov-2025
Total Organic Carbon	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32430574	32430576	32430578	32430583	32430586
	GR03-SP308-F	GR03-SP308-F	GR03-SP308-G	GR03-SP308-G	GR03-SP308-G
	ES	ES	ES	ES	ES
	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
Depth Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025
pH	16-Nov-2025	16-Nov-2025	16-Nov-2025	16-Nov-2025	17-Nov-2025
Sample description	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025	11-Nov-2025
Total Organic Carbon	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3239	QC 3299	QC 3220	QC 3276	QC 3234	QC 3272
10:2 FTS (Raw)	TM440	70.95 53.10 : 140.00	113.65 53.10 : 140.00	86.76 53.10 : 140.00	101.35 53.10 : 140.00	98.59 53.10 : 140.00	120.33 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	78.98 53.56 : 141.19	112.56 53.56 : 141.19	98.7 53.56 : 141.19	113.26 53.56 : 141.19	114.28 53.56 : 141.19	107.61 53.56 : 141.19
3:3 FTCA (Raw)	TM440	74.9 50.54 : 133.25	97.48 50.54 : 133.25	98.57 50.54 : 133.25	116.12 50.54 : 133.25	111.05 50.54 : 133.25	102.49 50.54 : 133.25
4:2 FTS (Raw)	TM440	84.44 56.34 : 145.91	95.25 56.34 : 145.91	96.41 56.34 : 145.91	112.15 56.34 : 145.91	106.84 56.34 : 145.91	98.4 56.34 : 145.91
5:3 FTCA (Raw)	TM440	84.8 52.66 : 130.08	95.01 52.66 : 130.08	93.65 52.66 : 130.08	99.34 52.66 : 130.08	103.21 52.66 : 130.08	113.79 52.66 : 130.08
6:2 FTAB (Raw)	TM440	17.43 38.50 : 101.50	45.77 38.50 : 101.50	33.29 38.50 : 101.50	39.32 38.50 : 101.50	42.89 38.50 : 101.50	44.09 38.50 : 101.50
6:2 FTS (Raw)	TM440	77.28 54.79 : 144.46	99.79 54.79 : 144.46	95.46 54.79 : 144.46	105.86 54.79 : 144.46	98.53 54.79 : 144.46	106.2 54.79 : 144.46
7:3 FTCA (Raw)	TM440	75.34 48.60 : 128.14	91.72 48.60 : 128.14	88.31 48.60 : 128.14	87.64 48.60 : 128.14	102.02 48.60 : 128.14	100.65 48.60 : 128.14
8:2 diPAP (Raw)	TM440	79.47 56.03 : 147.72	87.13 56.03 : 147.72	89.27 56.03 : 147.72	100.84 56.03 : 147.72	99.57 56.03 : 147.72	89.13 56.03 : 147.72
8:2 FTS (Raw)	TM440	80.13 55.74 : 146.96	109.12 55.74 : 146.96	117.02 55.74 : 146.96	108.64 55.74 : 146.96	126.31 55.74 : 146.96	92.7 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	78.72 54.59 : 143.91	95.86 54.59 : 143.91	88.53 54.59 : 143.91	97.12 54.59 : 143.91	111.58 54.59 : 143.91	115.47 54.59 : 143.91
ADONA (Raw)	TM440	75.2 54.01 : 132.33	96.06 54.01 : 132.33	97.0 54.01 : 132.33	99.19 54.01 : 132.33	105.11 54.01 : 132.33	101.37 54.01 : 132.33
Branched PFOS (Raw)	TM440	84.99 54.09 : 142.61	91.39 54.09 : 142.61	95.58 54.09 : 142.61	97.59 54.09 : 142.61	102.53 54.09 : 142.61	112.4 54.09 : 142.61
EtFOSAA (Raw)	TM440	74.92 52.48 : 138.36	85.59 52.48 : 138.36	112.33 52.48 : 138.36	113.11 52.48 : 138.36	108.66 52.48 : 138.36	112.93 52.48 : 138.36
EtFOSE (Raw)	TM440	78.24 57.05 : 145.29	99.57 57.05 : 145.29	106.79 57.05 : 145.29	110.27 57.05 : 145.29	110.5 57.05 : 145.29	119.75 57.05 : 145.29
FBSA (Raw)	TM440	76.89 49.51 : 125.13	87.0 49.51 : 125.13	87.88 49.51 : 125.13	98.33 49.51 : 125.13	93.96 49.51 : 125.13	95.61 49.51 : 125.13
FHxSA (Raw)	TM440	72.18 50.38 : 132.82	87.21 50.38 : 132.82	79.18 50.38 : 132.82	91.15 50.38 : 132.82	100.23 50.38 : 132.82	98.54 50.38 : 132.82
HFPO-DA (Raw)	TM440	75.48 53.47 : 140.98	95.7 53.47 : 140.98	97.38 53.47 : 140.98	99.22 53.47 : 140.98	108.78 53.47 : 140.98	112.06 53.47 : 140.98
HFPO-TA (Raw)	TM440	86.28 54.77 : 144.39	205.25 44.84 : 118.21	223.04 44.84 : 118.21	220.79 44.84 : 118.21	235.21 44.84 : 118.21	244.3 44.84 : 118.21
L-PFOS (Raw)	TM440	85.16 54.09 : 142.61	88.82 54.09 : 142.61	89.41 54.09 : 142.61	95.77 54.09 : 142.61	111.78 54.09 : 142.61	114.67 54.09 : 142.61
MeFOSAA (Raw)	TM440	73.56 53.02 : 139.78	89.11 53.02 : 139.78	95.52 53.02 : 139.78	98.02 53.02 : 139.78	122.82 53.02 : 139.78	122.3 53.02 : 139.78
MeFOSE (Raw)	TM440	76.59 54.99 : 144.97	100.87 54.99 : 144.97	101.93 54.99 : 144.97	111.59 54.99 : 144.97	104.21 54.99 : 144.97	100.0 54.99 : 144.97
N-EtFOSA (Raw)	TM440	75.32 59.56 : 132.93	92.55 59.56 : 132.93	95.23 59.56 : 132.93	99.27 59.56 : 132.93	107.66 59.56 : 132.93	113.55 59.56 : 132.93
NFDHA (Raw)	TM440	80.35 57.35 : 151.20	100.09 57.35 : 151.20	98.07 57.35 : 151.20	102.4 57.35 : 151.20	109.82 57.35 : 151.20	113.27 57.35 : 151.20
N-MeFOSA (Raw)	TM440	71.69 59.19 : 133.01	89.47 59.19 : 133.01	97.49 59.19 : 133.01	108.05 59.19 : 133.01	101.54 59.19 : 133.01	100.49 59.19 : 133.01
PFBA (Raw)	TM440	81.21 52.69 : 138.91	98.15 52.69 : 138.91	99.77 52.69 : 138.91	105.59 52.69 : 138.91	107.02 52.69 : 138.91	107.16 52.69 : 138.91



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Report Number: 784761
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PFAS in soils

		QC 3239	QC 3299	QC 3220	QC 3276	QC 3234	QC 3272
PFBS (Raw)	TM440	77.99 53.31 : 140.54	95.96 53.31 : 140.54	89.47 53.31 : 140.54	96.86 53.31 : 140.54	105.17 53.31 : 140.54	105.5 53.31 : 140.54
PFDA (Raw)	TM440	81.23 53.39 : 140.76	97.75 53.39 : 140.76	107.03 53.39 : 140.76	111.84 53.39 : 140.76	114.7 53.39 : 140.76	107.52 53.39 : 140.76
PFDoA (Raw)	TM440	72.69 52.85 : 139.34	105.55 52.85 : 139.34	99.49 52.85 : 139.34	106.95 52.85 : 139.34	121.85 52.85 : 139.34	110.12 52.85 : 139.34
PFDoS (Raw)	TM440	73.59 55.29 : 145.76	96.6 55.29 : 145.76	90.45 55.29 : 145.76	104.72 55.29 : 145.76	103.59 55.29 : 145.76	95.98 55.29 : 145.76
PFDS (Raw)	TM440	80.99 52.94 : 139.56	103.72 52.94 : 139.56	85.05 52.94 : 139.56	102.68 52.94 : 139.56	114.38 52.94 : 139.56	100.77 52.94 : 139.56
PFecHS (Raw)	TM440	71.47 50.75 : 133.80	84.13 50.75 : 133.80	94.11 50.75 : 133.80	94.62 50.75 : 133.80	108.93 50.75 : 133.80	102.13 50.75 : 133.80
PFEESA (Raw)	TM440	70.42 50.87 : 134.12	95.41 50.87 : 134.12	95.89 50.87 : 134.12	106.4 50.87 : 134.12	110.79 50.87 : 134.12	109.12 50.87 : 134.12
PFHpA (Raw)	TM440	75.62 52.61 : 138.69	102.01 52.61 : 138.69	107.99 52.61 : 138.69	99.41 52.61 : 138.69	106.51 52.61 : 138.69	109.92 52.61 : 138.69
PFHpS (Raw)	TM440	75.07 55.29 : 145.76	99.86 55.29 : 145.76	99.74 55.29 : 145.76	112.18 55.29 : 145.76	117.05 55.29 : 145.76	122.16 55.29 : 145.76
PFHxA (Raw)	TM440	79.34 54.05 : 142.50	103.43 54.05 : 142.50	98.27 54.05 : 142.50	105.62 54.05 : 142.50	101.84 54.05 : 142.50	111.71 54.05 : 142.50
PFHxDA (Raw)	TM440	77.03 52.03 : 137.17	98.84 52.03 : 137.17	100.29 52.03 : 137.17	103.15 52.03 : 137.17	104.71 52.03 : 137.17	108.88 52.03 : 137.17
PFHxS (Raw)	TM440	75.57 53.56 : 141.19	89.5 53.56 : 141.19	100.31 53.56 : 141.19	104.09 53.56 : 141.19	97.88 53.56 : 141.19	118.73 53.56 : 141.19
PFMOBA (Raw)	TM440	79.24 52.73 : 139.02	103.72 52.73 : 139.02	100.1 52.73 : 139.02	110.59 52.73 : 139.02	110.39 52.73 : 139.02	101.83 52.73 : 139.02
PFMOPra (Raw)	TM440	82.18 52.57 : 138.58	109.06 52.57 : 138.58	109.2 52.57 : 138.58	123.87 52.57 : 138.58	115.09 52.57 : 138.58	119.45 52.57 : 138.58
PFNA (Raw)	TM440	72.32 52.94 : 139.56	104.15 52.94 : 139.56	96.64 52.94 : 139.56	100.67 52.94 : 139.56	111.88 52.94 : 139.56	113.98 52.94 : 139.56
PFNS (Raw)	TM440	82.15 54.38 : 143.37	94.2 54.38 : 143.37	79.73 54.38 : 143.37	102.25 54.38 : 143.37	105.2 54.38 : 143.37	120.06 54.38 : 143.37
PFOA (Raw)	TM440	80.53 53.80 : 141.85	101.23 53.80 : 141.85	103.95 53.80 : 141.85	115.93 53.80 : 141.85	107.11 53.80 : 141.85	115.68 53.80 : 141.85
PFODA (Raw)	TM440	72.87 56.03 : 147.72	86.22 56.03 : 147.72	83.63 56.03 : 147.72	84.4 56.03 : 147.72	108.1 56.03 : 147.72	104.72 56.03 : 147.72
PFOSA (Raw)	TM440	75.62 53.10 : 140.00	89.91 53.10 : 140.00	99.32 53.10 : 140.00	98.39 53.10 : 140.00	98.07 53.10 : 140.00	100.73 53.10 : 140.00
PFPA (Raw)	TM440	78.36 53.89 : 142.06	105.61 53.89 : 142.06	101.86 53.89 : 142.06	103.74 53.89 : 142.06	111.88 53.89 : 142.06	106.05 53.89 : 142.06
PFPeS (Raw)	TM440	69.99 54.30 : 143.15	96.78 54.30 : 143.15	107.95 54.30 : 143.15	109.51 54.30 : 143.15	116.84 54.30 : 143.15	126.27 54.30 : 143.15
PFTeA (Raw)	TM440	82.98 53.06 : 139.89	105.18 53.06 : 139.89	112.23 53.06 : 139.89	118.91 53.06 : 139.89	113.1 53.06 : 139.89	110.65 53.06 : 139.89
PFTrDA (Raw)	TM440	87.87 51.70 : 136.30	105.37 51.70 : 136.30	103.04 51.70 : 136.30	119.5 51.70 : 136.30	104.2 51.70 : 136.30	107.46 51.70 : 136.30
PFTrDS (Raw)	TM440	76.88 56.24 : 148.26	96.05 56.24 : 148.26	94.16 56.24 : 148.26	100.81 56.24 : 148.26	118.81 56.24 : 148.26	108.69 56.24 : 148.26
PFUnA (Raw)	TM440	77.89 53.35 : 140.65	96.26 53.35 : 140.65	102.01 53.35 : 140.65	108.2 53.35 : 140.65	106.96 53.35 : 140.65	107.87 53.35 : 140.65
PFUnDS (Raw)	TM440	69.15 53.60 : 141.30	97.46 53.60 : 141.30	91.87 53.60 : 141.30	111.27 53.60 : 141.30	124.21 53.60 : 141.30	109.69 53.60 : 141.30



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PFAS in soils

Component	Method Code	QC 3237
10:2 FTS (Raw)	TM440	90.9 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	95.11 53.56 : 141.19
3:3 FTCA (Raw)	TM440	101.81 50.54 : 133.25
4:2 FTS (Raw)	TM440	99.29 56.34 : 145.91
5:3 FTCA (Raw)	TM440	106.8 52.66 : 130.08
6:2 FTAB (Raw)	TM440	40.04 38.50 : 101.50
6:2 FTS (Raw)	TM440	93.42 54.79 : 144.46
7:3 FTCA (Raw)	TM440	87.11 48.60 : 128.14
8:2 diPAP (Raw)	TM440	96.45 56.03 : 147.72
8:2 FTS (Raw)	TM440	111.21 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	112.34 54.59 : 143.91
ADONA (Raw)	TM440	97.09 54.01 : 132.33
Branched PFOS (Raw)	TM440	99.35 54.09 : 142.61
EtFOSAA (Raw)	TM440	98.57 52.48 : 138.36
EtFOSE (Raw)	TM440	112.46 57.05 : 145.29
FBSA (Raw)	TM440	89.53 49.51 : 125.13
FHxSA (Raw)	TM440	90.34 50.38 : 132.82
HFPO-DA (Raw)	TM440	95.91 53.47 : 140.98
HFPO-TA (Raw)	TM440	208.21 44.84 : 118.21
L-PFOS (Raw)	TM440	100.53 54.09 : 142.61
MeFOSAA (Raw)	TM440	114.67 53.02 : 139.78
MeFOSE (Raw)	TM440	105.85 54.99 : 144.97
N-EtFOSA (Raw)	TM440	99.0 59.56 : 132.93
NFDHA (Raw)	TM440	104.22 57.35 : 151.20
N-MeFOSA (Raw)	TM440	83.94 59.19 : 133.01
PFBA (Raw)	TM440	102.73 52.69 : 138.91
PFBS (Raw)	TM440	89.61 53.31 : 140.54



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PFAS in soils

		QC 3237
PFDA (Raw)	TM440	100.49 53.39 : 140.76
PFDoA (Raw)	TM440	100.54 52.85 : 139.34
PFDoS (Raw)	TM440	90.78 55.29 : 145.76
PFDS (Raw)	TM440	103.84 52.94 : 139.56
PFecHS (Raw)	TM440	89.46 50.75 : 133.80
PFEESA (Raw)	TM440	94.43 50.87 : 134.12
PFHpA (Raw)	TM440	100.18 52.61 : 138.69
PFHpS (Raw)	TM440	117.58 55.29 : 145.76
PFHxA (Raw)	TM440	102.22 54.05 : 142.50
PFHxDA (Raw)	TM440	98.5 52.03 : 137.17
PFHxS (Raw)	TM440	100.04 53.56 : 141.19
PFMOBA (Raw)	TM440	100.69 52.73 : 139.02
PFMOPra (Raw)	TM440	119.24 52.57 : 138.58
PFNA (Raw)	TM440	101.19 52.94 : 139.56
PFNS (Raw)	TM440	115.58 54.38 : 143.37
PFOA (Raw)	TM440	103.18 53.80 : 141.85
PFODA (Raw)	TM440	104.41 56.03 : 147.72
PFOSA (Raw)	TM440	96.86 53.10 : 140.00
PFPA (Raw)	TM440	101.63 53.89 : 142.06
PFPeS (Raw)	TM440	101.1 54.30 : 143.15
PFTeA (Raw)	TM440	107.04 53.06 : 139.89
PFTrDA (Raw)	TM440	101.14 51.70 : 136.30
PFTrDS (Raw)	TM440	107.85 56.24 : 148.26
PFUnA (Raw)	TM440	103.26 53.35 : 140.65
PFUnDS (Raw)	TM440	95.63 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3284	QC 3257
11CI-PF3OUdS (763051-92-9)	TM434	115.3 62.16 : 138.51	123.79 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	101.93 89.89 : 130.69	133.19 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	94.67 66.54 : 140.56	115.91 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	90.52 60.34 : 133.39	97.79 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	86.14 59.12 : 129.56	83.31 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	98.4 67.48 : 129.58	118.39 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	105.37 79.83 : 133.08	116.09 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	94.77 81.70 : 132.18	113.73 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	111.78 71.98 : 136.03	135.96 71.98 : 136.03
ADONA (919005-14-4)	TM434	110.85 70.14 : 142.14	106.84 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	89.68 67.04 : 131.16	112.66 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	79.2 67.92 : 135.38	1150.82 67.92 : 135.38
FBSA (30334-69-1)	TM434	100.04 58.08 : 137.20	103.59 58.08 : 137.20
FHxSA (41997-13-1)	TM434	91.14 71.81 : 148.16	129.33 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	103.58 57.03 : 123.70	116.59 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	217.05 58.05 : 153.05	137.64 58.05 : 153.05
Linear PFOS (1763-23-1)	TM434	100.8 69.95 : 145.18	114.59 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	101.41 68.44 : 128.29	136.62 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	79.3 70.83 : 132.00	106.53 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	69.89 59.26 : 122.86	122.77 59.26 : 122.86
NFDHA (151772-58-6)	TM434	88.35 59.99 : 133.56	127.96 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	72.21 62.71 : 118.96	125.7 62.71 : 118.96
PFBA (375-22-4)	TM434	96.03 67.84 : 130.39	113.82 67.84 : 130.39
PFBS (375-73-5)	TM434	99.09 90.25 : 126.25	105.27 90.25 : 126.25
PFDA (335-76-2)	TM434	92.24 68.94 : 132.99	120.11 68.94 : 132.99
PFDaA (307-55-1)	TM434	92.52 66.19 : 135.04	120.98 66.19 : 135.04
PFDoS (79780-39-5)	TM434	122.99 65.90 : 146.45	121.56 65.90 : 146.45



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PFAS Liquids (Full Suite)

		QC 3284	QC 3257
PFDS (335-77-3)	TM434	129.23 64.84 : 138.49	129.32 64.84 : 138.49
PFecHS (646-83-3)	TM434		98.43 81.53 : 139.35
PFEESA (113507-82-7)	TM434	100.79 67.24 : 129.19	113.13 67.24 : 129.19
PFHpA (375-85-9)	TM434	103.64 72.89 : 141.36	114.88 72.89 : 141.36
PFHpS (375-92-8)	TM434	107.98 72.19 : 155.36	102.19 72.19 : 155.36
PFHxA (307-24-4)	TM434	95.97 71.79 : 135.84	116.86 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	99.43 89.96 : 128.14	123.17 89.96 : 128.14
PFHxS (355-46-4)	TM434	111.15 84.41 : 134.44	108.0 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	110.37 84.99 : 139.74	126.05 84.99 : 139.74
PFMOPra (377-73-1)	TM434	114.31 80.40 : 136.73	135.52 80.40 : 136.73
PFNA (375-95-1)	TM434	98.56 68.61 : 128.99	117.75 68.61 : 128.99
PFNS (68259-12-1)	TM434	102.48 70.70 : 130.93	137.58 70.70 : 130.93
PFOA (335-67-1)	TM434	99.18 74.09 : 143.61	121.58 74.09 : 143.61
PFODA (16517-11-6)	TM434	105.74 68.70 : 175.88	15.24 68.70 : 175.88
PFOSA (754-91-6)	TM434	88.56 67.59 : 130.51	118.15 67.59 : 130.51
PFPA (2706-90-3)	TM434	103.39 74.20 : 140.58	122.4 74.20 : 140.58
PFPeS (2706-91-4)	TM434	100.48 76.19 : 137.91	105.5 76.19 : 137.91
PFTeA (376-06-7)	TM434	103.2 66.36 : 144.96	138.5 66.36 : 144.96
PFTrDA (72629-94-8)	TM434	112.97 71.98 : 130.25	113.5 71.98 : 130.25
PFTrDS (791563-89-8)	TM434		122.64 68.38 : 157.48
PFUnA (2058-94-8)	TM434	99.35 65.55 : 141.45	127.11 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	114.35 85.84 : 139.76	119.9 85.84 : 139.76

pH

Component	Method Code	QC 3221	QC 3284	QC 3286	QC 3248	QC 3250
pH	TM133	100.5 95.29 : 105.24	100.72 95.29 : 105.24	99.78 95.29 : 105.24	99.8 95.29 : 105.24	100.13 95.29 : 105.24



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Total Organic Carbon

Component	Method Code	QC 3286	QC 3255	QC 3212	QC 3220	QC 3222
Total Organic Carbon	TM132	95.43 93.61 : 106.00	96.69 93.61 : 106.00	97.08 93.61 : 106.00	96.97 93.61 : 106.00	96.53 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 03 December 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251112-63
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 784762
Order Number: UK-70100310

This report has been revised and directly supersedes 783511 in its entirety.

We received 46 samples on Wednesday November 12, 2025 and 46 of these samples were scheduled for analysis which was completed on Wednesday December 03, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32444420	GR03-SP303-A	ES	0.00 - 0.10	10/11/2025
32444450	GR03-SP303-A	ES	0.30 - 0.40	10/11/2025
32444478	GR03-SP303-A	ESALS	0.40 - 0.50	10/11/2025
32444469	GR03-SP317-A	ES	0.00 - 0.10	10/11/2025
32444474	GR03-SP317-A	ESALS	0.20 - 0.30	10/11/2025
32444476	GR03-SP317-A	ES	0.40 - 0.50	10/11/2025
32444503	GR03-SP303-B-S1	ES	0.10 - 0.20	10/11/2025
32444528	GR03-SP303-B-S1	ES	0.20 - 0.30	10/11/2025
32444531	GR03-SP303-B-S1	ESA1	0.50 - 0.60	10/11/2025
32444533	GR03-SP303-B-S1	ESA2	0.50 - 0.60	10/11/2025
32444536	GR03-SP303-B-S2	ESA1	0.50 - 0.60	10/11/2025
32444538	GR03-SP303-B-S2	ESA2	0.50 - 0.60	10/11/2025
32444490	GR03-SP317-B-S1	WS	0.00 - 0.60	10/11/2025
32444481	GR03-SP317-B-S1	ES	0.10 - 0.20	10/11/2025
32444484	GR03-SP317-B-S1	ESA1	0.30 - 0.40	10/11/2025
32444486	GR03-SP317-B-S1	ESA2	0.30 - 0.40	10/11/2025
32444488	GR03-SP317-B-S1	ES	0.50 - 0.60	10/11/2025
32444493	GR03-SP317-B-S2	ESA1	0.30 - 0.40	10/11/2025
32444495	GR03-SP317-B-S2	ESA2	0.30 - 0.40	10/11/2025
32444422	GR03-SP303-C	ES	0.00 - 0.10	10/11/2025
32444424	GR03-SP303-C	WS	0.00 - 0.50	10/11/2025
32444427	GR03-SP303-C	ES	0.20 - 0.30	10/11/2025
32444429	GR03-SP303-C	ES	0.40 - 0.50	10/11/2025
32444497	GR03-SP317-C	ES	0.00 - 0.10	10/11/2025
32444499	GR03-SP317-C	ES	0.30 - 0.40	10/11/2025
32444501	GR03-SP317-C	ES	0.40 - 0.50	10/11/2025
32444432	GR03-SP303-D	ES	0.10 - 0.20	10/11/2025
32444434	GR03-SP303-D	ES	0.30 - 0.40	10/11/2025
32444437	GR03-SP303-D	ES	0.50 - 0.60	10/11/2025
32444505	GR03-SP317-D	ESALS	0.00 - 0.10	10/11/2025
32444509	GR03-SP317-D	ES	0.20 - 0.30	10/11/2025
32444513	GR03-SP317-D	ES	0.40 - 0.50	10/11/2025
32444440	GR03-SP303-E	ES	0.00 - 0.10	10/11/2025
32444442	GR03-SP303-E	W	0.00 - 0.10	10/11/2025
32444447	GR03-SP303-E	ES	0.30 - 0.40	10/11/2025
32444452	GR03-SP303-E	ES	0.40 - 0.50	10/11/2025
32444516	GR03-SP317-E	ES	0.00 - 0.10	10/11/2025
32444518	GR03-SP317-E	ES	0.30 - 0.40	10/11/2025
32444521	GR03-SP317-E	WT	0.30 - 0.40	10/11/2025
32444525	GR03-SP317-E	ES	0.40 - 0.50	10/11/2025
32444455	GR03-SP303-F	ES	0.10 - 0.20	10/11/2025
32444457	GR03-SP303-F	ESALS	0.20 - 0.30	10/11/2025
32444460	GR03-SP303-F	ES	0.50 - 0.60	10/11/2025
32444462	GR03-SP303-G	ES	0.00 - 0.10	10/11/2025
32444464	GR03-SP303-G	ES	0.20 - 0.30	10/11/2025
32444467	GR03-SP303-G	ES	0.40 - 0.50	10/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer
Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS in soils

All

NDPs: 0
Tests: 42

PFAS Liquids (Full Suite)

All

NDPs: 0
Tests: 4

pH

All

NDPs: 0
Tests: 42

Sample description

All

NDPs: 0
Tests: 42

Total Organic Carbon

All

NDPs: 0
Tests: 42

32444495

GR03-SP317-B-S2

ESA2

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444493

GR03-SP317-B-S2

ESA1

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444488

GR03-SP317-B-S1

ES

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444486

GR03-SP317-B-S1

ESA2

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444484

GR03-SP317-B-S1

ESA1

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444481

GR03-SP317-B-S1

ES

0.10 - 0.20

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444490

GR03-SP317-B-S1

WS

0.00 - 0.60

50ml digitube
(ALE001)

PW

X

X

X

X

32444538

GR03-SP303-B-S2

ESA2

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444536

GR03-SP303-B-S2

ESA1

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444533

GR03-SP303-B-S1

ESA2

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444531

GR03-SP303-B-S1

ESA1

0.50 - 0.60

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444528

GR03-SP303-B-S1

ES

0.20 - 0.30

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444503

GR03-SP303-B-S1

ES

0.10 - 0.20

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444476

GR03-SP317-A

ES

0.40 - 0.50

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444474

GR03-SP317-A

ESALS

0.20 - 0.30

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444469

GR03-SP317-A

ES

0.00 - 0.10

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444478

GR03-SP303-A

ESALS

0.40 - 0.50

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444450

GR03-SP303-A

ES

0.30 - 0.40

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444420

GR03-SP303-A

ES

0.00 - 0.10

1kg TUB with
Handle (ALE260)

S

X

X

X

X

X

32444525	GR03-SP317-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444521	GR03-SP317-E	WT	0.30 - 0.40	50ml digitube (ALE001)	PW		X			
32444518	GR03-SP317-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444516	GR03-SP317-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444452	GR03-SP303-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444447	GR03-SP303-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444442	GR03-SP303-E	W	0.00 - 0.10	50ml digitube (ALE001)	PW		X			
32444440	GR03-SP303-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444513	GR03-SP317-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444509	GR03-SP317-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444505	GR03-SP317-D	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444437	GR03-SP303-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444434	GR03-SP303-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444432	GR03-SP303-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444501	GR03-SP317-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444499	GR03-SP317-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444497	GR03-SP317-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444429	GR03-SP303-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444427	GR03-SP303-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X		X	X	X
32444424	GR03-SP303-C	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X			
32444422	GR03-SP303-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X		X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

	Lab Sample No(s)		32444455	32444457	32444460	32444462	32444464	32444467
	Customer Sample Reference		GR03-SP303-F	GR03-SP303-F	GR03-SP303-F	GR03-SP303-G	GR03-SP303-G	GR03-SP303-G
	AGS Reference		ES	ESALS	ES	ES	ES	ES
	Depth (m)		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Container		1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)
	Sample Type		S	S	S	S	S	S
PFAS in soils	All	NDPs: 0 Tests: 42	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 42	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 42	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 42	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

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Report Number: 784762
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Sample Descriptions

Grain Sizes

very fine <0.063mm **fine** 0.063mm - 0.1mm **medium** 0.1mm - 2mm **coarse** 2mm - 10mm **very coarse** >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32444420	GR03-SP303-A	0.00 - 0.10	Dark Brown	Clay Loam	Stones	Vegetation
32444450	GR03-SP303-A	0.30 - 0.40	Dark Brown	Clay Loam	Vegetation	None
32444478	GR03-SP303-A	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32444469	GR03-SP317-A	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32444474	GR03-SP317-A	0.20 - 0.30	Dark Brown	Clay Loam	Vegetation	None
32444476	GR03-SP317-A	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None
32444503	GR03-SP303-B-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444528	GR03-SP303-B-S1	0.20 - 0.30	Dark Brown	Loamy Sand	Vegetation	Stones
32444531	GR03-SP303-B-S1	0.50 - 0.60	Dark Brown	Loamy Sand	Vegetation	Vegetation
32444533	GR03-SP303-B-S1	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444536	GR03-SP303-B-S2	0.50 - 0.60	Dark Brown	Sandy Loam	Stones	Vegetation
32444538	GR03-SP303-B-S2	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	Vegetation
32444481	GR03-SP317-B-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444484	GR03-SP317-B-S1	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444486	GR03-SP317-B-S1	0.30 - 0.40	Dark Brown	Sandy Clay	Vegetation	Stones
32444488	GR03-SP317-B-S1	0.50 - 0.60	Dark Brown	Clay Loam	None	None
32444493	GR03-SP317-B-S2	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32444495	GR03-SP317-B-S2	0.30 - 0.40	Dark Brown	Loamy Sand	Vegetation	Stones
32444422	GR03-SP303-C	0.00 - 0.10	Dark Brown	Loamy Sand	Vegetation	Vegetation
32444427	GR03-SP303-C	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444429	GR03-SP303-C	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	Vegetation
32444497	GR03-SP317-C	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32444499	GR03-SP317-C	0.30 - 0.40	Dark Brown	Loamy Sand	Vegetation	Stones
32444501	GR03-SP317-C	0.40 - 0.50	Dark Brown	Clay Loam	Vegetation	None
32444432	GR03-SP303-D	0.10 - 0.20	Dark Brown	Loamy Sand	Vegetation	Stones
32444434	GR03-SP303-D	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444437	GR03-SP303-D	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	Vegetation
32444505	GR03-SP317-D	0.00 - 0.10	Dark Brown	Clay Loam	Vegetation	Stones
32444509	GR03-SP317-D	0.20 - 0.30	Dark Brown	Silty Clay Loam	Crushed Brick	Stones
32444513	GR03-SP317-D	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32444440	GR03-SP303-E	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444447	GR03-SP303-E	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32444452	GR03-SP303-E	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	Stones
32444516	GR03-SP317-E	0.00 - 0.10	Dark Brown	Loamy Sand	Vegetation	Stones
32444518	GR03-SP317-E	0.30 - 0.40	Dark Brown	Clay Loam	Stones	Vegetation
32444525	GR03-SP317-E	0.40 - 0.50	Dark Brown	Sandy Clay	None	None
32444455	GR03-SP303-F	0.10 - 0.20	Dark Brown	Loamy Sand	Vegetation	Stones
32444457	GR03-SP303-F	0.20 - 0.30	Dark Brown	Clay Loam	Vegetation	None
32444460	GR03-SP303-F	0.50 - 0.60	Dark Brown	Silt Loam	Stones	Vegetation



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

			Colour	Description	Inclusions	Inclusions 2
32444462	GR03-SP303-G	0.00 - 0.10	Dark Brown	Silt Loam	Stones	Vegetation
32444464	GR03-SP303-G	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32444467	GR03-SP303-G	0.40 - 0.50	Dark Brown	Sandy Loam	Vegetation	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP303-A	GR03-SP303-A	GR03-SP303-A	GR03-SP317-A	GR03-SP317-A	GR03-SP317-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M mCERTS accredited.					Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.					10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt Dissolved / filtered sample.					12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfiltTotal / unfiltered sample.					251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444420	32444450	32444478	32444469	32444474	32444476
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESALS	ES	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			28	25	17	27	22	19
Soil Organic Matter (SOM)	<0.35 %	TM132			4.81	3.71	1.51	5.02	2.79	1.31
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.35	6.93	6.96	7.48	7.71	7.8
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.56	5.48	3.93	5.01	5.94	3.37
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP303-B-S1	GR03-SP303-B-S1	GR03-SP303-B-S1	GR03-SP303-B-S1	GR03-SP303-B-S2	GR03-SP303-B-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444503	32444528	32444531	32444533	32444536	32444538
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ESA1	ESA2	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			23	24	17	18	15	20
Soil Organic Matter (SOM)	<0.35 %	TM132			4.09	2.78	1.18	1.3	0.86	1.48
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.66	7.03	7.05	6.92	6.63	6.51
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	0.708	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.69	5.33	3.81	5.59	3.86	3.84
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S2
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6.2 FTAB (see appendix) 1-4**@Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.60 Process Water (PR) 10/11/2025 12/11/2025 251112-63 32444490 WS	0.10 - 0.20 Soil/Solid (S) 10/11/2025 12/11/2025 251112-63 32444481 ES	0.30 - 0.40 Soil/Solid (S) 10/11/2025 12/11/2025 251112-63 32444484 ESA1	0.30 - 0.40 Soil/Solid (S) 10/11/2025 12/11/2025 251112-63 32444486 ESA2	0.50 - 0.60 Soil/Solid (S) 10/11/2025 12/11/2025 251112-63 32444488 ES	0.30 - 0.40 Soil/Solid (S) 10/11/2025 12/11/2025 251112-63 32444493 ESA1	
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S2
#	ISO17025 accredited.			0.00 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002						
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002						
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003						
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002						
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002						
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001						
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002						
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002						
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001						
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01						
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001						
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01						
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001						
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001						
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01						
Total PFOS	<0.00065 µg/l	TM434	<0.00065						
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09						
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001						
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001						
Moisture Content Ratio (% of as received sample)	%	PM024		28	21	23	14	20	
Soil Organic Matter (SOM)	<0.35 %	TM132		4.93	2.91	2.98	1	3.59	
pH	1 pH Units	TM133		7.55	7.62	7.63	7.83	6.97	
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	0.585	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.60 Process Water (PR) 10/11/2025	0.10 - 0.20 Soil/Solid (S) 10/11/2025	0.30 - 0.40 Soil/Solid (S) 10/11/2025	0.30 - 0.40 Soil/Solid (S) 10/11/2025	0.50 - 0.60 Soil/Solid (S) 10/11/2025	0.30 - 0.40 Soil/Solid (S) 10/11/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*5@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.27	6.47	5.12	2.62	4.62
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.	GR03-SP317-B-S2	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP317-C
#	ISO17025 accredited.			0.30 - 0.40	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002				
PFMOPrA (377-73-1)	<0.001 µg/l	TM434			<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.	GR03-SP317-B-S2	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP317-C
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@ Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002				
PFTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434			<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01				
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434			<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001				
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434			<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01				
Total PFOS	<0.00065 µg/l	TM434			<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434			<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001				
PFTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	21	25		26	19	28	
Soil Organic Matter (SOM)	<0.35 %	TM132	2.48	4.05		4.62	1.55	4.62	
pH	1 pH Units	TM133	7.53	7.07		6.96	7.53	6.96	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	0.68		<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	0.732		1.05	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-B-S2	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP317-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444495	32444422	32444424	32444427	32444429	32444497
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ES	WS	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.83	3.59		4.59	4.08	5.67
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-C	GR03-SP317-C	GR03-SP303-D	GR03-SP303-D	GR03-SP303-D	GR03-SP317-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444499	32444501	32444432	32444434	32444437	32444505
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ESALS
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			26	16	24	18	18	24
Soil Organic Matter (SOM)	<0.35 %	TM132			4.07	1.88	3.47	1.72	1.18	3.26
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.12	7.19	7.58	7.67	7.76	7.71
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	0.736	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.861	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.53	4.75	3.84	4.18	5.28	5.99
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-D	GR03-SP317-D	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444509	32444513	32444440	32444442	32444447	32444452
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	W	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						0.00163		
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002		
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002		
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-D	GR03-SP317-D	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444509	32444513	32444440	32444442	32444447	32444452
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	W	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	24	16	25			13	13	
Soil Organic Matter (SOM)	<0.35 %	TM132	3.72	1.4	6.07			1.26	1.46	
pH	1 pH Units	TM133	7.82	7.69	8.2			8.51	7.93	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	0.807			<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.	GR03-SP317-D	GR03-SP317-D	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
m	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.			12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.			251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.				32444509	32444513	32444440	32444442	32444447	32444452
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				ES	ES	ES	W	ES	ES
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		5.56	3.56	3.11		1.27	6.03
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP303-F	GR03-SP303-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444516	32444518	32444521	32444525	32444455	32444457
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP303-F	GR03-SP303-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444516	32444518	32444521	32444525	32444455	32444457
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	23	24			15	28	19	
Soil Organic Matter (SOM)	<0.35 %	TM132	5	3.28			1.16	4.52	2.57	
pH	1 pH Units	TM133	7.85	7.87			7.7	7.24	7.69	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8			<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	0.826	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8			<1.8	<1.8	<1.8	
PFHxDA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1			<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5			<0.5	<0.5	<0.5	



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Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP303-F	GR03-SP303-F
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025
diss.filt	Dissolved / filtered sample.				12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025
tot.unfilt	Total / unfiltered sample.				251112-63	251112-63	251112-63	251112-63	251112-63	251112-63
* Subcontracted - refer to subcontractor report for accreditation status.					32444516	32444518	32444521	32444525	32444455	32444457
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	WT	ES	ES	ESALS
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.26	4.83		1.49	3.65	2.62
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



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Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

Results Legend			Customer Sample Ref.		GR03-SP303-F	GR03-SP303-G	GR03-SP303-G	GR03-SP303-G		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 10/11/2025	0.00 - 0.10 Soil/Solid (S) 10/11/2025	0.20 - 0.30 Soil/Solid (S) 10/11/2025	0.40 - 0.50 Soil/Solid (S) 10/11/2025		
M	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			18	29	23	15		
Soil Organic Matter (SOM)	<0.35 %	TM132			1.12	4.43	2.78	1.14		
pH	1 pH Units	TM133			7.65	6.34	6.66	6.87		
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	0.751	<0.5		
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.06	4.18	4.93	7.26		
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		



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SDG: 251112-63
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Report Number: 784762
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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32444420	32444450	32444478	32444469	32444474	32444476	32444503	32444528	32444531	32444533
	GR03-SP303-A	GR03-SP303-A	GR03-SP303-A	GR03-SP317-A	GR03-SP317-A	GR03-SP317-A	GR03-SP303-B-S1	GR03-SP303-B-S1	GR03-SP303-B-S1	GR03-SP303-B-S1
	ES	ES	ESALS	ES	ESALS	ES	ES	ES	ESA1	ESA2
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	26-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	27-Nov-2025	27-Nov-2025	26-Nov-2025	27-Nov-2025
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
Sample description	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025
Total Organic Carbon	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	17-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32444536	32444538	32444481	32444484	32444486	32444488	32444490	32444493	32444495	32444422
	GR03-SP303-B-S2	GR03-SP303-B-S2	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S1	GR03-SP317-B-S2	GR03-SP317-B-S2	GR03-SP303-C
	ESA1	ESA2	ES	ESA1	ESA2	ES	WS	ESA1	ESA2	ES
	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.60	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	19-Nov-2025	26-Nov-2025	27-Nov-2025	03-Dec-2025	27-Nov-2025		27-Nov-2025	03-Dec-2025	27-Nov-2025
PFAS Liquids (Full Suite)							28-Nov-2025			
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025
Sample description	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025		13-Nov-2025	13-Nov-2025	13-Nov-2025
Total Organic Carbon	19-Nov-2025	19-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	21-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32444424	32444427	32444429	32444497	32444499	32444501	32444432	32444434	32444437	32444505
	GR03-SP303-C	GR03-SP303-C	GR03-SP303-C	GR03-SP317-C	GR03-SP317-C	GR03-SP317-C	GR03-SP303-D	GR03-SP303-D	GR03-SP303-D	GR03-SP317-D
	WS	ES	ES	ES	ES	ES	ES	ES	ES	ESALS
	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		27-Nov-2025	27-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	26-Nov-2025
PFAS Liquids (Full Suite)	28-Nov-2025									
pH		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
Sample description		13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025
Total Organic Carbon		21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32444509	32444513	32444440	32444442	32444447	32444452	32444516	32444518	32444521	32444525
	GR03-SP317-D	GR03-SP317-D	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E	GR03-SP303-E	GR03-SP317-E	GR03-SP317-E	GR03-SP317-E	GR03-SP317-E
	ES	ES	ES	W	ES	ES	ES	ES	WT	ES
	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.30 - 0.40	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)
PFAS in soils	26-Nov-2025	26-Nov-2025	27-Nov-2025		26-Nov-2025	27-Nov-2025	26-Nov-2025	26-Nov-2025		03-Dec-2025
PFAS Liquids (Full Suite)				28-Nov-2025					28-Nov-2025	
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025
Sample description	13-Nov-2025	13-Nov-2025	13-Nov-2025		13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025		13-Nov-2025
Total Organic Carbon	21-Nov-2025	21-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025		21-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32444455	32444457	32444460	32444462	32444464	32444467
	GR03-SP303-F	GR03-SP303-F	GR03-SP303-F	GR03-SP303-G	GR03-SP303-G	GR03-SP303-G
	ES	ESALS	ES	ES	ES	ES
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	27-Nov-2025	26-Nov-2025	26-Nov-2025	03-Dec-2025	27-Nov-2025	27-Nov-2025
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
Sample description	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025	13-Nov-2025
Total Organic Carbon	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3202	QC 3220	QC 3286	QC 3272	QC 3237
10:2 FTS (Raw)	TM440	78.48 53.10 : 140.00	86.76 53.10 : 140.00	96.11 53.10 : 140.00	120.33 53.10 : 140.00	90.9 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	72.63 53.56 : 141.19	98.7 53.56 : 141.19	90.51 53.56 : 141.19	107.61 53.56 : 141.19	95.11 53.56 : 141.19
3:3 FTCA (Raw)	TM440	71.3 50.54 : 133.25	98.57 50.54 : 133.25	103.86 50.54 : 133.25	102.49 50.54 : 133.25	101.81 50.54 : 133.25
4:2 FTS (Raw)	TM440	70.24 56.34 : 145.91	96.41 56.34 : 145.91	99.61 56.34 : 145.91	98.4 56.34 : 145.91	99.29 56.34 : 145.91
5:3 FTCA (Raw)	TM440	66.99 52.66 : 130.08	93.65 52.66 : 130.08	102.51 52.66 : 130.08	113.79 52.66 : 130.08	106.8 52.66 : 130.08
6:2 FTAB (Raw)	TM440	27.58 38.50 : 101.50	33.29 38.50 : 101.50	42.17 38.50 : 101.50	44.09 38.50 : 101.50	40.04 38.50 : 101.50
6:2 FTS (Raw)	TM440	69.25 54.79 : 144.46	95.46 54.79 : 144.46	91.76 54.79 : 144.46	106.2 54.79 : 144.46	93.42 54.79 : 144.46
7:3 FTCA (Raw)	TM440	72.42 48.60 : 128.14	88.31 48.60 : 128.14	94.86 48.60 : 128.14	100.65 48.60 : 128.14	87.11 48.60 : 128.14
8:2 diPAP (Raw)	TM440	70.52 56.03 : 147.72	89.27 56.03 : 147.72	106.93 56.03 : 147.72	89.13 56.03 : 147.72	96.45 56.03 : 147.72
8:2 FTS (Raw)	TM440	74.22 55.74 : 146.96	117.02 55.74 : 146.96	96.76 55.74 : 146.96	92.7 55.74 : 146.96	111.21 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	64.95 54.59 : 143.91	88.53 54.59 : 143.91	93.86 54.59 : 143.91	115.47 54.59 : 143.91	112.34 54.59 : 143.91
ADONA (Raw)	TM440	60.7 54.01 : 132.33	97.0 54.01 : 132.33	100.12 54.01 : 132.33	101.37 54.01 : 132.33	97.09 54.01 : 132.33
Branched PFOS (Raw)	TM440	67.87 54.09 : 142.61	95.58 54.09 : 142.61	106.35 54.09 : 142.61	112.4 54.09 : 142.61	99.35 54.09 : 142.61
EtFOSAA (Raw)	TM440	65.34 52.48 : 138.36	112.33 52.48 : 138.36	110.58 52.48 : 138.36	112.93 52.48 : 138.36	98.57 52.48 : 138.36
EtFOSE (Raw)	TM440	64.0 57.05 : 145.29	106.79 57.05 : 145.29	123.76 57.05 : 145.29	119.75 57.05 : 145.29	112.46 57.05 : 145.29
FBSA (Raw)	TM440	65.58 49.51 : 125.13	87.88 49.51 : 125.13	87.9 49.51 : 125.13	95.61 49.51 : 125.13	89.53 49.51 : 125.13
FHxSA (Raw)	TM440	60.43 50.38 : 132.82	79.18 50.38 : 132.82	86.85 50.38 : 132.82	98.54 50.38 : 132.82	90.34 50.38 : 132.82
HFPO-DA (Raw)	TM440	62.92 53.47 : 140.98	97.38 53.47 : 140.98	108.22 53.47 : 140.98	112.06 53.47 : 140.98	95.91 53.47 : 140.98
HFPO-TA (Raw)	TM440	129.26 44.84 : 118.21	223.04 44.84 : 118.21	231.82 44.84 : 118.21	244.3 44.84 : 118.21	208.21 44.84 : 118.21
L-PFOS (Raw)	TM440	67.87 54.09 : 142.61	89.41 54.09 : 142.61	87.98 54.09 : 142.61	114.67 54.09 : 142.61	100.53 54.09 : 142.61
MeFOSAA (Raw)	TM440	64.64 53.02 : 139.78	95.52 53.02 : 139.78	105.48 53.02 : 139.78	122.3 53.02 : 139.78	114.67 53.02 : 139.78
MeFOSE (Raw)	TM440	61.66 54.99 : 144.97	101.93 54.99 : 144.97	96.22 54.99 : 144.97	100.0 54.99 : 144.97	105.85 54.99 : 144.97
N-EtFOSA (Raw)	TM440	66.88 59.56 : 132.93	95.23 59.56 : 132.93	103.98 59.56 : 132.93	113.55 59.56 : 132.93	99.0 59.56 : 132.93
NFDHA (Raw)	TM440	64.9 57.35 : 151.20	98.07 57.35 : 151.20	103.31 57.35 : 151.20	113.27 57.35 : 151.20	104.22 57.35 : 151.20
N-MeFOSA (Raw)	TM440	66.62 59.19 : 133.01	97.49 59.19 : 133.01	91.91 59.19 : 133.01	100.49 59.19 : 133.01	83.94 59.19 : 133.01
PFBA (Raw)	TM440	63.43 52.69 : 138.91	99.77 52.69 : 138.91	106.98 52.69 : 138.91	107.16 52.69 : 138.91	102.73 52.69 : 138.91



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

PFAS in soils

		QC 3202	QC 3220	QC 3286	QC 3272	QC 3237
PFBS (Raw)	TM440	63.31 53.31 : 140.54	89.47 53.31 : 140.54	104.01 53.31 : 140.54	105.5 53.31 : 140.54	89.61 53.31 : 140.54
PFDA (Raw)	TM440	72.95 53.39 : 140.76	107.03 53.39 : 140.76	107.32 53.39 : 140.76	107.52 53.39 : 140.76	100.49 53.39 : 140.76
PFDoA (Raw)	TM440	62.49 52.85 : 139.34	99.49 52.85 : 139.34	104.23 52.85 : 139.34	110.12 52.85 : 139.34	100.54 52.85 : 139.34
PFDoS (Raw)	TM440	69.63 55.29 : 145.76	90.45 55.29 : 145.76	88.01 55.29 : 145.76	95.98 55.29 : 145.76	90.78 55.29 : 145.76
PFDS (Raw)	TM440	65.93 52.94 : 139.56	85.05 52.94 : 139.56	87.66 52.94 : 139.56	100.77 52.94 : 139.56	103.84 52.94 : 139.56
PFecHS (Raw)	TM440	64.09 50.75 : 133.80	94.11 50.75 : 133.80	95.62 50.75 : 133.80	102.13 50.75 : 133.80	89.46 50.75 : 133.80
PFEESA (Raw)	TM440	67.03 50.87 : 134.12	95.89 50.87 : 134.12	107.55 50.87 : 134.12	109.12 50.87 : 134.12	94.43 50.87 : 134.12
PFHpA (Raw)	TM440	66.13 52.61 : 138.69	107.99 52.61 : 138.69	102.55 52.61 : 138.69	109.92 52.61 : 138.69	100.18 52.61 : 138.69
PFHpS (Raw)	TM440	69.12 55.29 : 145.76	99.74 55.29 : 145.76	116.16 55.29 : 145.76	122.16 55.29 : 145.76	117.58 55.29 : 145.76
PFHxA (Raw)	TM440	66.22 54.05 : 142.50	98.27 54.05 : 142.50	107.8 54.05 : 142.50	111.71 54.05 : 142.50	102.22 54.05 : 142.50
PFHxDA (Raw)	TM440	62.84 52.03 : 137.17	100.29 52.03 : 137.17	108.7 52.03 : 137.17	108.88 52.03 : 137.17	98.5 52.03 : 137.17
PFHxS (Raw)	TM440	63.78 53.56 : 141.19	100.31 53.56 : 141.19	115.06 53.56 : 141.19	118.73 53.56 : 141.19	100.04 53.56 : 141.19
PFMOBA (Raw)	TM440	66.35 52.73 : 139.02	100.1 52.73 : 139.02	97.61 52.73 : 139.02	101.83 52.73 : 139.02	100.69 52.73 : 139.02
PFMOPra (Raw)	TM440	66.11 52.57 : 138.58	109.2 52.57 : 138.58	100.39 52.57 : 138.58	119.45 52.57 : 138.58	119.24 52.57 : 138.58
PFNA (Raw)	TM440	67.58 52.94 : 139.56	96.64 52.94 : 139.56	109.23 52.94 : 139.56	113.98 52.94 : 139.56	101.19 52.94 : 139.56
PFNS (Raw)	TM440	63.73 54.38 : 143.37	79.73 54.38 : 143.37	95.61 54.38 : 143.37	120.06 54.38 : 143.37	115.58 54.38 : 143.37
PFOA (Raw)	TM440	67.93 53.80 : 141.85	103.95 53.80 : 141.85	102.24 53.80 : 141.85	115.68 53.80 : 141.85	103.18 53.80 : 141.85
PFODA (Raw)	TM440	57.6 56.03 : 147.72	83.63 56.03 : 147.72	106.9 56.03 : 147.72	104.72 56.03 : 147.72	104.41 56.03 : 147.72
PFOSA (Raw)	TM440	63.03 53.10 : 140.00	99.32 53.10 : 140.00	92.61 53.10 : 140.00	100.73 53.10 : 140.00	96.86 53.10 : 140.00
PFFPA (Raw)	TM440	65.17 53.89 : 142.06	101.86 53.89 : 142.06	104.54 53.89 : 142.06	106.05 53.89 : 142.06	101.63 53.89 : 142.06
PFPeS (Raw)	TM440	64.68 54.30 : 143.15	107.95 54.30 : 143.15	112.0 54.30 : 143.15	126.27 54.30 : 143.15	101.1 54.30 : 143.15
PFTeA (Raw)	TM440	73.86 53.06 : 139.89	112.23 53.06 : 139.89	113.07 53.06 : 139.89	110.65 53.06 : 139.89	107.04 53.06 : 139.89
PFTrDA (Raw)	TM440	82.64 51.70 : 136.30	103.04 51.70 : 136.30	111.07 51.70 : 136.30	107.46 51.70 : 136.30	101.14 51.70 : 136.30
PFTrDS (Raw)	TM440	69.84 56.24 : 148.26	94.16 56.24 : 148.26	100.35 56.24 : 148.26	108.69 56.24 : 148.26	107.85 56.24 : 148.26
PFUnA (Raw)	TM440	74.59 53.35 : 140.65	102.01 53.35 : 140.65	111.81 53.35 : 140.65	107.87 53.35 : 140.65	103.26 53.35 : 140.65
PFUnDS (Raw)	TM440	71.59 53.60 : 141.30	91.87 53.60 : 141.30	89.9 53.60 : 141.30	109.69 53.60 : 141.30	95.63 53.60 : 141.30

pH



CERTIFICATE OF ANALYSIS

Validated

SDG: 251112-63
Client Ref.: UK-70100310

Report Number: 784762
Location: Thornton Phase 3

Superseded Report: 783511

pH

Component	Method Code	QC 3244	QC 3297	QC 3299	QC 3201
pH	TM133	99.63 95.29 : 105.24	97.75 95.29 : 105.24	99.45 95.29 : 105.24	99.65 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3282	QC 3245	QC 3257	QC 3275	QC 3277	QC 3280
Total Organic Carbon	TM132	95.5 93.61 : 106.00	96.45 93.61 : 106.00	96.04 93.61 : 106.00	97.69 93.61 : 106.00	96.21 93.61 : 106.00	97.74 93.61 : 106.00

Component	Method Code	QC 3282
Total Organic Carbon	TM132	96.3 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251112-63
Client Ref: UK-70100310

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Location: Thornton Phase 3

Superseded Report: 783511

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



Unit 7-8 Hawarden Business Park
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Hawarden
Deeside
CH5 3US

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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	03 December 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251114-62
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	784698
Order Number:	UK-70100310

We received 47 samples on Thursday November 13, 2025 and 47 of these samples were scheduled for analysis which was completed on Tuesday December 02, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32455904	GR03-SP310-A	WS	0.00 - 0.60	11/11/2025
32455911	GR03-SP310-A	ES	0.10 - 0.20	11/11/2025
32455913	GR03-SP310-A	ES	0.20 - 0.30	11/11/2025
32455909	GR03-SP310-A	ESALS	0.50 - 0.60	11/11/2025
32455838	GR03-SP315-A	ES	0.00 - 0.10	11/11/2025
32455841	GR03-SP315-A	ES	0.30 - 0.40	11/11/2025
32455846	GR03-SP315-A	ES	0.40 - 0.50	11/11/2025
32455899	GR03-SP310-B-S1	ES	0.00 - 0.10	11/11/2025
32455901	GR03-SP310-B-S1	ES	0.20 - 0.30	11/11/2025
32455894	GR03-SP310-B-S1	ESA2	0.40 - 0.50	11/11/2025
32455896	GR03-SP310-B-S1	ESA1	0.40 - 0.50	11/11/2025
32455883	GR03-SP310-B-S2	ESA2	0.40 - 0.50	11/11/2025
32455885	GR03-SP310-B-S2	ESA1	0.40 - 0.50	11/11/2025
32455824	GR03-SP315-B-S1	WS	0.00 - 0.60	11/11/2025
32455830	GR03-SP315-B-S1	ESA2	0.10 - 0.20	11/11/2025
32455832	GR03-SP315-B-S1	ESA1	0.10 - 0.20	11/11/2025
32455834	GR03-SP315-B-S1	ES	0.20 - 0.30	11/11/2025
32455836	GR03-SP315-B-S1	ES	0.50 - 0.60	11/11/2025
32455816	GR03-SP315-B-S2	ESA2	0.10 - 0.20	11/11/2025
32455818	GR03-SP315-B-S2	ESA1	0.10 - 0.20	11/11/2025
32455879	GR03-SP310-C	ES	0.10 - 0.20	11/11/2025
32455873	GR03-SP310-C	ESALS	0.30 - 0.40	11/11/2025
32455881	GR03-SP310-C	ES	0.50 - 0.60	11/11/2025
32455809	GR03-SP315-C	ESALS	0.00 - 0.10	11/11/2025
32455811	GR03-SP315-C	ES	0.20 - 0.30	11/11/2025
32455813	GR03-SP315-C	ES	0.40 - 0.50	11/11/2025
32455864	GR03-SP310-D	ES	0.00 - 0.10	11/11/2025
32455866	GR03-SP310-D	ES	0.30 - 0.40	11/11/2025
32455869	GR03-SP310-D	ES	0.40 - 0.50	11/11/2025
32455798	GR03-SP315-D	W	0.00 - 0.60	11/11/2025
32455801	GR03-SP315-D	ES	0.10 - 0.20	11/11/2025
32455804	GR03-SP315-D	ES	0.30 - 0.40	11/11/2025
32455807	GR03-SP315-D	ES	0.50 - 0.60	11/11/2025
32455851	GR03-SP310-E	ES	0.10 - 0.20	11/11/2025
32455858	GR03-SP310-E	ES	0.30 - 0.40	11/11/2025
32455848	GR03-SP310-E	WT	0.30 - 0.40	11/11/2025
32455861	GR03-SP310-E	ES	0.50 - 0.60	11/11/2025
32455924	GR03-SP315-E	ES	0.00 - 0.10	11/11/2025
32455795	GR03-SP315-E	ES	0.30 - 0.40	11/11/2025
32455922	GR03-SP315-E	ESALS	0.40 - 0.50	11/11/2025
32455915	GR03-SP315-F	ES	0.10 - 0.20	11/11/2025
32455918	GR03-SP315-F	ES	0.20 - 0.30	11/11/2025
32455889	GR03-SP315-F	WT	0.40 - 0.50	11/11/2025
32455920	GR03-SP315-F	ES	0.50 - 0.60	11/11/2025
32455793	GR03-SP315-G	ES	0.00 - 0.10	11/11/2025
32455820	GR03-SP315-G	ES	0.20 - 0.30	11/11/2025
32455856	GR03-SP315-G	ES	0.40 - 0.50	11/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend

- X** Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32455816	GR03-SP315-B-S2	ES A2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32455836	GR03-SP315-B-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32455834	GR03-SP315-B-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32455832	GR03-SP315-B-S1	ES A1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32455830	GR03-SP315-B-S1	ES A2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32455824	GR03-SP315-B-S1	WS	0.00 - 0.60	50ml digtube (ALE001)	PW						
	32455885	GR03-SP310-B-S2	ES A1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32455883	GR03-SP310-B-S2	ES A2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32455896	GR03-SP310-B-S1	ES A1	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32455894	GR03-SP310-B-S1	ES A2	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32455901	GR03-SP310-B-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32455899	GR03-SP310-B-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32455846	GR03-SP315-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32455841	GR03-SP315-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32455838	GR03-SP315-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32455909	GR03-SP310-A	ES A1	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32455913	GR03-SP310-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
pH	32455911	GR03-SP310-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32455904	GR03-SP310-A	WS	0.00 - 0.60	50ml digtube (ALE001)	PW						
Sample description												
Total Organic Carbon												

32455922	GR03-SP315-E	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X	X			X
32455795	GR03-SP315-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X	X			X
32455924	GR03-SP315-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X	X			X
32455861	GR03-SP310-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X		X
32455848	GR03-SP310-E	WT	0.30 - 0.40	50ml digitube Handle (ALE260)	PW		X							
32455858	GR03-SP310-E	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X	X			X
32455851	GR03-SP310-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455807	GR03-SP315-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455804	GR03-SP315-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455801	GR03-SP315-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X
32455798	GR03-SP315-D	W	0.00 - 0.60	50ml digitube Handle (ALE260)	PW		X							
32455869	GR03-SP310-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X				X
32455866	GR03-SP310-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455864	GR03-SP310-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455813	GR03-SP315-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X		X
32455811	GR03-SP315-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455809	GR03-SP315-C	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455881	GR03-SP310-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455873	GR03-SP310-C	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455879	GR03-SP310-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X	X	X	X	X
32455818	GR03-SP315-B-S2	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend

- X** Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		32455856	32455820	32455793	32455920	32455889	32455918	32455915
	Customer Sample Reference		GR03-SP315-G	GR03-SP315-G	GR03-SP315-G	GR03-SP315-F	GR03-SP315-F	GR03-SP315-F	GR03-SP315-F
	AGS Reference		ES	ES	ES	ES	WT	ES	ES
	Depth (m)		0.40 - 0.50	0.20 - 0.30	0.00 - 0.10	0.50 - 0.60	0.40 - 0.50	0.20 - 0.30	0.10 - 0.20
	Container		1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	50ml digtube (ALE001)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)
	Sample Type		S	S	S	S	PW	S	S
PFAS in soils	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X
PFAS Liquids (Full Suite)	All	NDPs: 0 Tests: 5					X		
pH	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 40	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 42	X	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32455909	GR03-SP310-A	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	Vegetation
32455911	GR03-SP310-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32455913	GR03-SP310-A	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32455838	GR03-SP315-A	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455841	GR03-SP315-A	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Brick
32455846	GR03-SP315-A	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Brick
32455894	GR03-SP310-B-S1	0.40 - 0.50	Dark Brown	Silty Clay	Stones	Vegetation
32455896	GR03-SP310-B-S1	0.40 - 0.50	Light Brown	Clay	Stones	Vegetation
32455899	GR03-SP310-B-S1	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455901	GR03-SP310-B-S1	0.20 - 0.30	Light Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32455883	GR03-SP310-B-S2	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32455885	GR03-SP310-B-S2	0.40 - 0.50	Light Brown	Silty Clay	Stones	Vegetation
32455830	GR03-SP315-B-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455832	GR03-SP315-B-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32455834	GR03-SP315-B-S1	0.20 - 0.30	Light Brown	Silt Loam	Vegetation	Stones
32455836	GR03-SP315-B-S1	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Brick
32455816	GR03-SP315-B-S2	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32455818	GR03-SP315-B-S2	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32455873	GR03-SP310-C	0.30 - 0.40	Light Brown	Clay Loam	Stones	Vegetation
32455879	GR03-SP310-C	0.10 - 0.20	Light Brown	Silty Clay Loam	Stones	Vegetation
32455881	GR03-SP310-C	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32455809	GR03-SP315-C	0.00 - 0.10	Dark Brown	Silt Loam	Stones	Vegetation
32455811	GR03-SP315-C	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455813	GR03-SP315-C	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32455864	GR03-SP310-D	0.00 - 0.10	Light Brown	Silty Clay Loam	Stones	Vegetation
32455866	GR03-SP310-D	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Brick
32455869	GR03-SP310-D	0.40 - 0.50	Light Brown	Sandy Clay Loam	Brick	Stones
32455801	GR03-SP315-D	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455804	GR03-SP315-D	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455807	GR03-SP315-D	0.50 - 0.60	Light Brown	Silty Clay Loam	Stones	None
32455851	GR03-SP310-E	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32455858	GR03-SP310-E	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455861	GR03-SP310-E	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None
32455795	GR03-SP315-E	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455922	GR03-SP315-E	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455924	GR03-SP315-E	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32455915	GR03-SP315-F	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	None
32455918	GR03-SP315-F	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32455920	GR03-SP315-F	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation

02:57:48 03/12/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32455793	GR03-SP315-G	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32455820	GR03-SP315-G	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32455856	GR03-SP315-G	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP315-A	GR03-SP315-A
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	
M mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)		
aq Aqueous / settled sample.			11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025		
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.			13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025		
* Subcontracted - refer to subcontractor report for accreditation status.			251114-62	251114-62	251114-62	251114-62	251114-62		
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32455904	32455911	32455913	32455909	32455838		
*** 6.2 FTAB (see appendix)			WS	ES	ES	ESALS	ES		
1-4**@ Sample deviation (see appendix)									
Component			LOD/Units	Method					
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP315-A	GR03-SP315-A
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.60 Process Water (PR) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.50 - 0.60 Soil/Solid (S) 11/11/2025	0.00 - 0.10 Soil/Solid (S) 11/11/2025	0.30 - 0.40 Soil/Solid (S) 11/11/2025
m CERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
*** 6:2 FTAB (see appendix)				32455904	32455911	32455913	32455909	32455838	32455841
1-4* @ Sample deviation (see appendix)				WS	ES	ES	ESALS	ES	ES
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434		<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434		<0.002					
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434		<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434		<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434		<0.002	@				
PFTeA (376-06-7)	<0.001 µg/l	TM434		<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434		<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434		<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434		<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434		<0.01	@				
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434		<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434		<0.01	@				
PFODA (16517-11-6)	<0.001 µg/l	TM434		<0.001					
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434		<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434		<0.01					
Total PFOS	<0.00065 µg/l	TM434		<0.00065					
Total PFAS DWI 47	<0.09 µg/l	TM434		<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434		<0.001	@				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434		<0.001	@				
Moisture Content Ratio (% of as received sample)	%	PM024			20	13	16	26	15
Soil Organic Matter (SOM)	<0.35 %	TM132			4.05 #	1.44 #	0.981 #	5.41 #	2.34 #
pH	1 pH Units	TM133			8.29 M	8.61 M	8.45 M	7.65 M	8.61 M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.31	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.12	0.715
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP315-A	GR03-SP315-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.60 Process Water (PR) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.50 - 0.60 Soil/Solid (S) 11/11/2025	0.00 - 0.10 Soil/Solid (S) 11/11/2025	0.30 - 0.40 Soil/Solid (S) 11/11/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.55	3.68	38.2	4.56	11.4
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.712	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.908	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP310-B-S2	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 11/11/2025	0.00 - 0.60 Process Water (PR) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.50 - 0.60 Soil/Solid (S) 11/11/2025
diss.filt Dissolved / filtered sample.	tot.unfilt Total / unfiltered sample.	* Subcontracted - refer to subcontractor report for accreditation status.			13/11/2025 251114-62 32455885 ESA1	13/11/2025 251114-62 32455824 WS	13/11/2025 251114-62 32455830 ESA2	13/11/2025 251114-62 32455832 ESA1	13/11/2025 251114-62 32455834 ES	13/11/2025 251114-62 32455836 ES
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	*** 6:2 FTAB (see appendix)	1-4**@ Sample deviation (see appendix)								
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP310-B-S2	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.40 - 0.50 Soil/Solid (S) 11/11/2025	0.00 - 0.60 Process Water (PR) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.50 - 0.60 Soil/Solid (S) 11/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
*** 6:2 FTAB (see appendix)					32455885	32455824	32455830	32455832	32455834	32455836
1-4**@ Sample deviation (see appendix)					ESA1	WS	ESA2	ESA1	ES	ES
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			17		22	23	22	13
Soil Organic Matter (SOM)	<0.35 %	TM132			0.871		3.09	3.6	3.62	1.91
pH	1 pH Units	TM133			8.09		7.53	7.47	7.47	8.4
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	0.696	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		1.01	1.1	0.873	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxDA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP310-B-S2	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 11/11/2025	0.00 - 0.60 Process Water (PR) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.10 - 0.20 Soil/Solid (S) 11/11/2025	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.50 - 0.60 Soil/Solid (S) 11/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
*** 6:2 FTAB (see appendix)					32455885	32455824	32455830	32455832	32455834	32455836
1-4**@ Sample deviation (see appendix)					ESA1	VS	ESA2	ESA1	ES	ES
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			37.5		6.81	6.62	3.99	3.78
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		1.08	1.05	0.751	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP315-B-S2	GR03-SP315-B-S2	GR03-SP310-C	GR03-SP310-C	GR03-SP310-C	GR03-SP315-C
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)	6:2 FTAB deviation (see appendix)								
1-4*§@Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	23	22	25	18	15	22	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.31	3.88	4.07	1.11	0.64	4.98	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	7.23	7.6	7.99	8.48	8.28	7.96	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	0.815	0.72	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	1.21	0.777	<0.5	<0.5	<0.5	1.57	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.67	4.55	3.52	18.8	30.6	3.93	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	1.02	0.798	<0.5	<0.5	<0.5	0.741	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP315-C	GR03-SP315-C	GR03-SP310-D	GR03-SP310-D	GR03-SP310-D	GR03-SP315-D
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.40 - 0.50 Soil/Solid (S) 11/11/2025	0.00 - 0.10 Soil/Solid (S) 11/11/2025	0.30 - 0.40 Soil/Solid (S) 11/11/2025	0.40 - 0.50 Soil/Solid (S) 11/11/2025	0.00 - 0.60 Process Water (PR) 11/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
*** 6.2 FTAB (see appendix)				251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
1-4**@Sample deviation (see appendix)				32455811	32455813	32455864	32455866	32455869	32455798
				ES	ES	ES	ES	ES	W
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002
PFMOPrA (377-73-1)	<0.001 µg/l	TM434							<0.001
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065
Branched PFOS	<0.00065 µg/l	TM434							<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP315-C	GR03-SP315-C	GR03-SP310-D	GR03-SP310-D	GR03-SP310-D	GR03-SP315-D
#	ISO17025 accredited.		0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.60
M	mCERTS accredited.		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.		11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
***	6:2 FTAB (see appendix)		251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
1-4%	Sample deviation (see appendix)		32455811	32455813	32455864	32455866	32455869	32455798
		ES	ES	ES	ES	ES	W	
Component	LOD/Units	Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002
PFTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434						<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434						<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01
Total PFOS	<0.00065 µg/l	TM434						<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001
PFTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001
Moisture Content Ratio (% of as received sample)	%	PM024	15	8.8	26	13	15	
Soil Organic Matter (SOM)	<0.35 %	TM132	4.5	1.07	3.69	3.14	1.52	
pH	1 pH Units	TM133	8.23	8.58	7.83	8.44	8.52	
PFBA (375-22-4)	<0.5 µg/kg	TM440	0.594	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	1.3	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP315-C	GR03-SP315-C	GR03-SP310-D	GR03-SP310-D	GR03-SP310-D	GR03-SP315-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.60
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
diss.filt	Dissolved / filtered sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
tot.unfilt	Total / unfiltered sample.				251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
* Subcontracted - refer to subcontractor report for accreditation status.					32455811	32455813	32455864	32455866	32455869	32455798
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	W
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.47	20	6.18	7.76	18	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			0.854	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP315-D	GR03-SP315-D	GR03-SP315-D	GR03-SP310-E	GR03-SP310-E	GR03-SP310-E
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6.2 FTAB (see appendix)									
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40
PFBA (375-22-4)	<0.002 µg/l	TM434	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
PFMOPra (377-73-1)	<0.001 µg/l	TM434	Date Sampled	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Sample Time						
PFPA (2706-90-3)	<0.001 µg/l	TM434	Date Received	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	SDG Ref	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	Lab Sample No.(s)	32455801	32455804	32455807	32455851	32455858	32455848
NFDHA (151772-58-6)	<0.003 µg/l	TM434	AGS Reference	ES	ES	ES	ES	ES	WT
PFBS (375-73-5)	<0.001 µg/l	TM434							
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434							
PFHxS (355-46-4)	<0.001 µg/l	TM434							
PFNA (375-95-1)	<0.001 µg/l	TM434							
PFHpS (375-92-8)	<0.001 µg/l	TM434							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							
PFDA (335-76-2)	<0.002 µg/l	TM434							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							@
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							
Branched PFOS	<0.00065 µg/l	TM434							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							@
PFUnA (2058-94-8)	<0.002 µg/l	TM434							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							
PFNS (68259-12-1)	<0.001 µg/l	TM434							
FHxSA (41997-13-1)	<0.001 µg/l	TM434							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP315-D	GR03-SP315-D	GR03-SP315-D	GR03-SP310-E	GR03-SP310-E	GR03-SP310-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
diss.filt	Dissolved / filtered sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
tot.unfilt	Total / unfiltered sample.				251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
* Subcontracted - refer to subcontractor report for accreditation status.					32455801	32455804	32455807	32455851	32455858	32455848
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	WT
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434								<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			14	15	16	26	28	
Soil Organic Matter (SOM)	<0.35 %	TM132			2.57	2.45	1.07	3.79	3.71	
pH	1 pH Units	TM133			8.25	8.59	8.78	7.48	7.63	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP315-D	GR03-SP315-D	GR03-SP315-D	GR03-SP310-E	GR03-SP310-E	GR03-SP310-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025
diss.filt	Dissolved / filtered sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
tot.unfilt	Total / unfiltered sample.				251114-62	251114-62	251114-62	251114-62	251114-62	251114-62
* Subcontracted - refer to subcontractor report for accreditation status.					32455801	32455804	32455807	32455851	32455858	32455848
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	WT
*** 6:2 FTAB (see appendix)										
1-4* \$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.3	1.29	2.16	8.48	12.1	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP310-E	GR03-SP315-E	GR03-SP315-E	GR03-SP315-E	GR03-SP315-F	GR03-SP315-F						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Soil/Solid (S) 11/11/2025 13/11/2025 251114-62 32455861 ES								0.00 - 0.10 Soil/Solid (S) 11/11/2025 13/11/2025 251114-62 32455924 ES	0.30 - 0.40 Soil/Solid (S) 11/11/2025 13/11/2025 251114-62 32455795 ES	0.40 - 0.50 Soil/Solid (S) 11/11/2025 13/11/2025 251114-62 32455922 ESALS	0.10 - 0.20 Soil/Solid (S) 11/11/2025 13/11/2025 251114-62 32455915 ES	0.20 - 0.30 Soil/Solid (S) 11/11/2025 13/11/2025 251114-62 32455918 ES	
Component	LOD/Units	Method								20	18	15	13	16	14
Moisture Content Ratio (% of as received sample)	%	PM024								20	18	15	13	16	14
Soil Organic Matter (SOM)	<0.35 %	TM132								1.26 #	3.86 #	2.05 #	1.88 #	1.97 #	2.36 #
pH	1 pH Units	TM133								7.91 M	7.81 M	8.29 M	8.06 M	8.42 M	8.52 M
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	0.738	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	2.06	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	31.8	2.2	2.95	4.45	3.45	5.13							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP315-F	GR03-SP315-F	GR03-SP315-G	GR03-SP315-G	GR03-SP315-G	
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Depth (m)	0.40 - 0.50	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50				
Sample Type	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)				
Date Sampled	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025				
Sample Time	.	.	.	.	.				
Date Received	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025				
SDG Ref	251114-62	251114-62	251114-62	251114-62	251114-62				
Lab Sample No.(s)	32455889	32455920	32455793	32455820	32455856				
AGS Reference	WT	ES	ES	ES	ES				
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP315-F	GR03-SP315-F	GR03-SP315-G	GR03-SP315-G	GR03-SP315-G	
#	ISO17025 accredited.			0.40 - 0.50	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	
M	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
aq	Aqueous / settled sample.			11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002						
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002						
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003						
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002						
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002	@					
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001						
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002						
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002						
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001						
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01	@					
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001						
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01	@					
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001						
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001						
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01						
Total PFOS	<0.00065 µg/l	TM434	<0.00065						
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09						
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001	@					
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001	@					
Moisture Content Ratio (% of as received sample)	%	PM024		13	25	14	16		
Soil Organic Matter (SOM)	<0.35 %	TM132		1.36	6.45	1.43	2.03		
pH	1 pH Units	TM133		8.16	7.97	8.67	8.6		
PFBA (375-22-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1	<1	<1	<1		
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP315-F	GR03-SP315-F	GR03-SP315-G	GR03-SP315-G	GR03-SP315-G	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Process Water (PR) 11/11/2025	0.50 - 0.60 Soil/Solid (S) 11/11/2025	0.00 - 0.10 Soil/Solid (S) 11/11/2025	0.20 - 0.30 Soil/Solid (S) 11/11/2025	0.40 - 0.50 Soil/Solid (S) 11/11/2025	
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440				16.4	2.33	4.66	8.66	
PFHxS (355-46-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440				<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440				<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440				<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440				<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440				<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62

Report Number: 784698

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
TM434	Analysis of PFAS in Liquid matrices
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32455904	32455909	32455911	32455913	32455838	32455841	32455846	32455894	32455896	32455899
	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP310-A	GR03-SP315-A	GR03-SP315-A	GR03-SP315-A	GR03-SP310-B-S1	GR03-SP310-B-S1	GR03-SP310-B-S1
	WS	ESALS	ES	ES	ES	ES	ES	ESA2	ESA1	ES
	0.00 - 0.60	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.40 - 0.50	0.40 - 0.50	0.00 - 0.10
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	28-Nov-2025	02-Dec-2025	02-Dec-2025
PFAS Liquids (Full Suite)	01-Dec-2025									
pH		17-Nov-2025	20-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	20-Nov-2025	17-Nov-2025	17-Nov-2025
Sample description		15-Nov-2025	15-Nov-2025	15-Nov-2025	15-Nov-2025	15-Nov-2025	15-Nov-2025	14-Nov-2025	15-Nov-2025	15-Nov-2025
Total Organic Carbon		25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32455901	32455883	32455885	32455824	32455830	32455832	32455834	32455836	32455816	32455818
	GR03-SP310-B-S1	GR03-SP310-B-S2	GR03-SP310-B-S2	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S1	GR03-SP315-B-S2	GR03-SP315-B-S2
	ES	ESA2	ESA1	WS	ESA2	ESA1	ES	ES	ESA2	ESA1
	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50	0.00 - 0.60	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	02-Dec-2025	02-Dec-2025	02-Dec-2025		02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	28-Nov-2025
PFAS Liquids (Full Suite)				01-Dec-2025						
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	20-Nov-2025
Sample description	15-Nov-2025	15-Nov-2025	15-Nov-2025		15-Nov-2025	15-Nov-2025	15-Nov-2025	15-Nov-2025	15-Nov-2025	14-Nov-2025
Total Organic Carbon	25-Nov-2025	25-Nov-2025	25-Nov-2025		25-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32455873	32455879	32455881	32455809	32455811	32455813	32455864	32455866	32455869	32455798
	GR03-SP310-C	GR03-SP310-C	GR03-SP310-C	GR03-SP315-C	GR03-SP315-C	GR03-SP315-C	GR03-SP310-D	GR03-SP310-D	GR03-SP310-D	GR03-SP315-D
	ESALS	ES	ES	ESALS	ES	ES	ES	ES	ES	W
	0.30 - 0.40	0.10 - 0.20	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	28-Nov-2025	25-Nov-2025	02-Dec-2025	28-Nov-2025	02-Dec-2025	
PFAS Liquids (Full Suite)										01-Dec-2025
pH	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	20-Nov-2025	20-Nov-2025	17-Nov-2025	20-Nov-2025	17-Nov-2025	
Sample description	15-Nov-2025	15-Nov-2025	15-Nov-2025	15-Nov-2025	14-Nov-2025	14-Nov-2025	15-Nov-2025	14-Nov-2025	15-Nov-2025	
Total Organic Carbon	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025	24-Nov-2025	21-Nov-2025	25-Nov-2025	24-Nov-2025	
Lab Sample No(s) Customer Sample Ref.	32455801	32455804	32455807	32455848	32455851	32455858	32455861	32455795	32455922	32455924
	GR03-SP315-D	GR03-SP315-D	GR03-SP315-D	GR03-SP310-E	GR03-SP310-E	GR03-SP310-E	GR03-SP310-E	GR03-SP315-E	GR03-SP315-E	GR03-SP315-E
	ES	ES	ES	WT	ES	ES	ES	ES	ESALS	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	25-Nov-2025	25-Nov-2025	28-Nov-2025		02-Dec-2025	02-Dec-2025	02-Dec-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025
PFAS Liquids (Full Suite)				28-Nov-2025						
pH	20-Nov-2025	20-Nov-2025	20-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025	20-Nov-2025	17-Nov-2025	17-Nov-2025
Sample description	14-Nov-2025	14-Nov-2025	14-Nov-2025		15-Nov-2025	15-Nov-2025	15-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025
Total Organic Carbon	24-Nov-2025	24-Nov-2025	24-Nov-2025		25-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025	21-Nov-2025	21-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32455889	32455915	32455918	32455920	32455793	32455820	32455856			
	GR03-SP315-F	GR03-SP315-F	GR03-SP315-F	GR03-SP315-F	GR03-SP315-G	GR03-SP315-G	GR03-SP315-G			
	WT	ES	ES	ES	ES	ES	ES			
	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50			
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
PFAS in soils		25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	28-Nov-2025	02-Dec-2025			
PFAS Liquids (Full Suite)	01-Dec-2025									
pH		20-Nov-2025	20-Nov-2025	17-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025			
Sample description		14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025	14-Nov-2025			
Total Organic Carbon		24-Nov-2025	25-Nov-2025	21-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251114-62
Client Ref.: UK-70100310Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3220	QC 3234	QC 3276	QC 3203	QC 3212	QC 3220
10:2 FTS (Raw)	TM440	86.76 53.10 : 140.00	98.59 53.10 : 140.00	124.51 53.10 : 140.00	86.45 53.10 : 140.00	91.09 53.10 : 140.00	112.6 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	98.7 53.56 : 141.19	114.28 53.56 : 141.19	99.0 53.56 : 141.19	122.07 53.56 : 141.19	119.37 53.56 : 141.19	123.87 53.56 : 141.19
3:3 FTCA (Raw)	TM440	98.57 50.54 : 133.25	111.05 50.54 : 133.25	86.98 50.54 : 133.25	106.81 50.54 : 133.25	112.51 50.54 : 133.25	110.38 50.54 : 133.25
4:2 FTS (Raw)	TM440	96.41 56.34 : 145.91	106.84 56.34 : 145.91	87.7 56.34 : 145.91	108.06 56.34 : 145.91	106.1 56.34 : 145.91	103.33 56.34 : 145.91
5:3 FTCA (Raw)	TM440	93.65 52.66 : 130.08	103.21 52.66 : 130.08	89.14 52.66 : 130.08	101.76 52.66 : 130.08	107.86 52.66 : 130.08	104.29 52.66 : 130.08
6:2 FTAB (Raw)	TM440	33.29 38.50 : 101.50	42.89 38.50 : 101.50	29.17 38.50 : 101.50	39.4 38.50 : 101.50	36.29 38.50 : 101.50	45.23 38.50 : 101.50
6:2 FTS (Raw)	TM440	95.46 54.79 : 144.46	98.53 54.79 : 144.46	92.1 54.79 : 144.46	111.26 54.79 : 144.46	94.99 54.79 : 144.46	122.12 54.79 : 144.46
7:3 FTCA (Raw)	TM440	88.31 48.60 : 128.14	102.02 48.60 : 128.14	95.96 48.60 : 128.14	103.94 48.60 : 128.14	102.86 48.60 : 128.14	94.45 48.60 : 128.14
8:2 diPAP (Raw)	TM440	89.27 56.03 : 147.72	99.57 56.03 : 147.72	81.2 56.03 : 147.72	92.58 56.03 : 147.72	96.05 56.03 : 147.72	88.15 56.03 : 147.72
8:2 FTS (Raw)	TM440	117.02 55.74 : 146.96	126.31 55.74 : 146.96	88.58 55.74 : 146.96	109.7 55.74 : 146.96	98.38 55.74 : 146.96	116.13 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	88.53 54.59 : 143.91	111.58 54.59 : 143.91	83.16 54.59 : 143.91	103.04 54.59 : 143.91	112.69 54.59 : 143.91	111.54 54.59 : 143.91
ADONA (Raw)	TM440	97.0 54.01 : 132.33	105.11 54.01 : 132.33	83.46 54.01 : 132.33	100.83 54.01 : 132.33	101.51 54.01 : 132.33	101.78 54.01 : 132.33
Branched PFOS (Raw)	TM440	95.58 54.09 : 142.61	102.53 54.09 : 142.61	72.82 54.09 : 142.61	107.44 54.09 : 142.61	116.33 54.09 : 142.61	116.36 54.09 : 142.61
EtFOSAA (Raw)	TM440	112.33 52.48 : 138.36	108.66 52.48 : 138.36	80.65 52.48 : 138.36	113.03 52.48 : 138.36	103.36 52.48 : 138.36	120.77 52.48 : 138.36
EtFOSE (Raw)	TM440	106.79 57.05 : 145.29	110.5 57.05 : 145.29	78.72 57.05 : 145.29	109.8 57.05 : 145.29	109.47 57.05 : 145.29	106.52 57.05 : 145.29
FBSA (Raw)	TM440	87.88 49.51 : 125.13	93.96 49.51 : 125.13	70.81 49.51 : 125.13	100.26 49.51 : 125.13	96.16 49.51 : 125.13	91.92 49.51 : 125.13
FHxSA (Raw)	TM440	79.18 50.38 : 132.82	100.23 50.38 : 132.82	76.13 50.38 : 132.82	90.4 50.38 : 132.82	93.69 50.38 : 132.82	93.0 50.38 : 132.82
HFPO-DA (Raw)	TM440	97.38 53.47 : 140.98	108.78 53.47 : 140.98	79.23 53.47 : 140.98	113.02 53.47 : 140.98	117.71 53.47 : 140.98	118.55 53.47 : 140.98
HFPO-TA (Raw)	TM440	223.04 44.84 : 118.21	235.21 44.84 : 118.21	210.64 44.84 : 118.21	245.45 44.84 : 118.21	244.82 44.84 : 118.21	244.39 44.84 : 118.21
L-PFOS (Raw)	TM440	89.41 54.09 : 142.61	111.78 54.09 : 142.61	72.82 54.09 : 142.61	107.44 54.09 : 142.61	116.33 54.09 : 142.61	116.36 54.09 : 142.61
MeFOSAA (Raw)	TM440	95.52 53.02 : 139.78	122.82 53.02 : 139.78	90.02 53.02 : 139.78	108.52 53.02 : 139.78	103.73 53.02 : 139.78	107.93 53.02 : 139.78
MeFOSE (Raw)	TM440	101.93 54.99 : 144.97	104.21 54.99 : 144.97	86.23 54.99 : 144.97	103.61 54.99 : 144.97	107.55 54.99 : 144.97	108.81 54.99 : 144.97
N-EtFOSA (Raw)	TM440	95.23 59.56 : 132.93	107.66 59.56 : 132.93	79.09 59.56 : 132.93	104.72 59.56 : 132.93	107.8 59.56 : 132.93	105.16 59.56 : 132.93
NFDHA (Raw)	TM440	98.07 57.35 : 151.20	109.82 57.35 : 151.20	84.18 57.35 : 151.20	109.9 57.35 : 151.20	107.42 57.35 : 151.20	114.8 57.35 : 151.20
N-MeFOSA (Raw)	TM440	97.49 59.19 : 133.01	101.54 59.19 : 133.01	75.0 59.19 : 133.01	105.85 59.19 : 133.01	103.03 59.19 : 133.01	118.25 59.19 : 133.01
PFBA (Raw)	TM440	99.77 52.69 : 138.91	107.02 52.69 : 138.91	115.23 52.69 : 138.91	106.06 52.69 : 138.91	101.33 52.69 : 138.91	103.08 52.69 : 138.91



CERTIFICATE OF ANALYSIS

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SDG: 251114-62
Client Ref.: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

		QC 3220	QC 3234	QC 3276	QC 3203	QC 3212	QC 3220
PFBS (Raw)	TM440	89.47 53.31 : 140.54	105.17 53.31 : 140.54	82.93 53.31 : 140.54	106.28 53.31 : 140.54	107.01 53.31 : 140.54	111.31 53.31 : 140.54
PFDA (Raw)	TM440	107.03 53.39 : 140.76	114.7 53.39 : 140.76	81.13 53.39 : 140.76	114.88 53.39 : 140.76	110.66 53.39 : 140.76	107.72 53.39 : 140.76
PFDoA (Raw)	TM440	99.49 52.85 : 139.34	121.85 52.85 : 139.34	87.4 52.85 : 139.34	106.06 52.85 : 139.34	110.76 52.85 : 139.34	114.13 52.85 : 139.34
PFDoS (Raw)	TM440	90.45 55.29 : 145.76	103.59 55.29 : 145.76	95.77 55.29 : 145.76	116.16 55.29 : 145.76	113.76 55.29 : 145.76	121.85 55.29 : 145.76
PFDS (Raw)	TM440	85.05 52.94 : 139.56	114.38 52.94 : 139.56	80.45 52.94 : 139.56	116.79 52.94 : 139.56	104.31 52.94 : 139.56	121.17 52.94 : 139.56
PFecHS (Raw)	TM440	94.11 50.75 : 133.80	108.93 50.75 : 133.80	73.73 50.75 : 133.80	101.55 50.75 : 133.80	93.5 50.75 : 133.80	108.92 50.75 : 133.80
PFEESA (Raw)	TM440	95.89 50.87 : 134.12	110.79 50.87 : 134.12	89.37 50.87 : 134.12	112.4 50.87 : 134.12	106.98 50.87 : 134.12	114.43 50.87 : 134.12
PFHpA (Raw)	TM440	107.99 52.61 : 138.69	106.51 52.61 : 138.69	87.47 52.61 : 138.69	110.15 52.61 : 138.69	105.66 52.61 : 138.69	110.94 52.61 : 138.69
PFHpS (Raw)	TM440	99.74 55.29 : 145.76	117.05 55.29 : 145.76	88.9 55.29 : 145.76	107.11 55.29 : 145.76	125.37 55.29 : 145.76	122.63 55.29 : 145.76
PFHxA (Raw)	TM440	98.27 54.05 : 142.50	101.84 54.05 : 142.50	86.19 54.05 : 142.50	111.28 54.05 : 142.50	112.49 54.05 : 142.50	116.57 54.05 : 142.50
PFHxDA (Raw)	TM440	100.29 52.03 : 137.17	104.71 52.03 : 137.17	83.38 52.03 : 137.17	108.95 52.03 : 137.17	109.79 52.03 : 137.17	105.43 52.03 : 137.17
PFHxS (Raw)	TM440	100.31 53.56 : 141.19	97.88 53.56 : 141.19	71.93 53.56 : 141.19	101.43 53.56 : 141.19	99.28 53.56 : 141.19	106.66 53.56 : 141.19
PFMOBA (Raw)	TM440	100.1 52.73 : 139.02	110.39 52.73 : 139.02	78.41 52.73 : 139.02	114.31 52.73 : 139.02	104.84 52.73 : 139.02	110.85 52.73 : 139.02
PFMOPra (Raw)	TM440	109.2 52.57 : 138.58	115.09 52.57 : 138.58	88.64 52.57 : 138.58	114.46 52.57 : 138.58	111.26 52.57 : 138.58	117.27 52.57 : 138.58
PFNA (Raw)	TM440	96.64 52.94 : 139.56	111.88 52.94 : 139.56	82.7 52.94 : 139.56	104.69 52.94 : 139.56	111.85 52.94 : 139.56	114.55 52.94 : 139.56
PFNS (Raw)	TM440	79.73 54.38 : 143.37	105.2 54.38 : 143.37	82.56 54.38 : 143.37	107.0 54.38 : 143.37	103.8 54.38 : 143.37	114.83 54.38 : 143.37
PFOA (Raw)	TM440	103.95 53.80 : 141.85	107.11 53.80 : 141.85	88.22 53.80 : 141.85	112.8 53.80 : 141.85	115.6 53.80 : 141.85	105.98 53.80 : 141.85
PFODA (Raw)	TM440	83.63 56.03 : 147.72	108.1 56.03 : 147.72	75.01 56.03 : 147.72	104.77 56.03 : 147.72	92.47 56.03 : 147.72	95.51 56.03 : 147.72
PFOSA (Raw)	TM440	99.32 53.10 : 140.00	98.07 53.10 : 140.00	79.97 53.10 : 140.00	102.87 53.10 : 140.00	100.25 53.10 : 140.00	101.27 53.10 : 140.00
PFPA (Raw)	TM440	101.86 53.89 : 142.06	111.88 53.89 : 142.06	82.49 53.89 : 142.06	109.16 53.89 : 142.06	108.21 53.89 : 142.06	114.16 53.89 : 142.06
PFPeS (Raw)	TM440	107.95 54.30 : 143.15	116.84 54.30 : 143.15	72.36 54.30 : 143.15	108.4 54.30 : 143.15	95.55 54.30 : 143.15	111.76 54.30 : 143.15
PFTeA (Raw)	TM440	112.23 53.06 : 139.89	113.1 53.06 : 139.89	89.08 53.06 : 139.89	100.58 53.06 : 139.89	100.28 53.06 : 139.89	111.51 53.06 : 139.89
PFTrDA (Raw)	TM440	103.04 51.70 : 136.30	104.2 51.70 : 136.30	87.97 51.70 : 136.30	101.64 51.70 : 136.30	97.26 51.70 : 136.30	108.35 51.70 : 136.30
PFTrDS (Raw)	TM440	94.16 56.24 : 148.26	118.81 56.24 : 148.26	95.5 56.24 : 148.26	112.62 56.24 : 148.26	111.15 56.24 : 148.26	124.61 56.24 : 148.26
PFUnA (Raw)	TM440	102.01 53.35 : 140.65	106.96 53.35 : 140.65	84.39 53.35 : 140.65	118.51 53.35 : 140.65	99.72 53.35 : 140.65	103.73 53.35 : 140.65
PFUnDS (Raw)	TM440	91.87 53.60 : 141.30	124.21 53.60 : 141.30	91.23 53.60 : 141.30	113.71 53.60 : 141.30	110.84 53.60 : 141.30	119.57 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

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Client Ref.: UK-70100310

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Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3264	QC 3219
11CI-PF3OUdS (763051-92-9)	TM434	121.57 62.16 : 138.51	108.21 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	106.29 89.89 : 130.69	101.12 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	113.75 66.54 : 140.56	95.32 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	95.71 60.34 : 133.39	91.59 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	105.86 59.12 : 129.56	101.4 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	109.03 67.48 : 129.58	96.69 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	119.57 79.83 : 133.08	100.91 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	106.8 81.70 : 132.18	102.55 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	119.39 71.98 : 136.03	107.22 71.98 : 136.03
ADONA (919005-14-4)	TM434	112.65 70.14 : 142.14	95.85 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	121.22 67.04 : 131.16	91.1 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	967.67 52.90 : 139.47	908.83 52.90 : 139.47
FBSA (30334-69-1)	TM434	121.59 58.08 : 137.20	99.35 58.08 : 137.20
FHxSA (41997-13-1)	TM434	121.66 71.81 : 148.16	104.55 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	105.87 57.03 : 123.70	88.17 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	107.54 58.05 : 153.05	97.8 58.05 : 153.05
Linear PFOS (1763-23-1)	TM434	122.72 69.95 : 145.18	106.42 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	106.43 68.44 : 128.29	95.89 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	96.92 70.83 : 132.00	92.67 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	110.96 59.26 : 122.86	84.84 59.26 : 122.86
NFDHA (151772-58-6)	TM434	111.97 59.99 : 133.56	105.31 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	92.12 62.71 : 118.96	82.8 62.71 : 118.96
PFBA (375-22-4)	TM434	110.99 67.84 : 130.39	94.13 67.84 : 130.39
PFBS (375-73-5)	TM434	124.81 90.25 : 126.25	105.2 90.25 : 126.25
PFDA (335-76-2)	TM434	110.64 68.94 : 132.99	91.71 68.94 : 132.99
PFDaA (307-55-1)	TM434	116.74 66.19 : 135.04	94.56 66.19 : 135.04
PFDoS (79780-39-5)	TM434	121.49 65.90 : 146.45	110.22 65.90 : 146.45



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Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

		QC 3264	QC 3219
PFDS (335-77-3)	TM434	118.09 64.84 : 138.49	115.64 64.84 : 138.49
PFecHS (646-83-3)	TM434	120.77 81.53 : 139.35	114.14 81.53 : 139.35
PFEESA (113507-82-7)	TM434	99.37 67.24 : 129.19	109.84 67.24 : 129.19
PFHpA (375-85-9)	TM434	124.9 72.89 : 141.36	111.74 72.89 : 141.36
PFHpS (375-92-8)	TM434	121.19 72.19 : 155.36	116.44 72.19 : 155.36
PFHxA (307-24-4)	TM434	112.44 71.79 : 135.84	95.02 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	126.82 89.96 : 128.14	114.11 89.96 : 128.14
PFHxS (355-46-4)	TM434	123.65 84.41 : 134.44	103.69 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	123.28 84.99 : 139.74	113.96 84.99 : 139.74
PFMOPra (377-73-1)	TM434	120.58 80.40 : 136.73	107.15 80.40 : 136.73
PFNA (375-95-1)	TM434	111.95 68.61 : 128.99	95.36 68.61 : 128.99
PFNS (68259-12-1)	TM434	114.87 70.70 : 130.93	118.11 70.70 : 130.93
PFOA (335-67-1)	TM434	122.5 74.09 : 143.61	113.86 74.09 : 143.61
PFODA (16517-11-6)	TM434	11.97 67.60 : 178.22	11.75 67.60 : 178.22
PFOSA (754-91-6)	TM434	109.95 67.59 : 130.51	94.61 67.59 : 130.51
PFPA (2706-90-3)	TM434	122.21 74.20 : 140.58	108.92 74.20 : 140.58
PFPeS (2706-91-4)	TM434	119.52 76.19 : 137.91	94.65 76.19 : 137.91
PFTeA (376-06-7)	TM434	124.31 66.36 : 144.96	111.16 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	122.71 71.98 : 130.25	112.01 71.98 : 130.25
PFTTrDS (791563-89-8)	TM434	128.63 68.38 : 157.48	111.0 68.38 : 157.48
PFUnA (2058-94-8)	TM434	107.23 65.55 : 141.45	101.42 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	108.21 85.84 : 139.76	97.68 85.84 : 139.76

pH

Component	Method Code	QC 3250	QC 3201	QC 3203	QC 3205	QC 3206	QC 3208
pH	TM133	100.13 95.29 : 105.24	99.65 95.29 : 105.24	98.6 95.29 : 105.24	99.23 95.29 : 105.24	101.82 95.29 : 105.24	104.66 95.29 : 105.24



CERTIFICATE OF ANALYSIS

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Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

pH

Component	Method Code	QC 3210	QC 3212
pH	TM133	103.57 95.29 : 105.24	102.85 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3275	QC 3282	QC 3265	QC 3284	QC 3286	QC 3210
Total Organic Carbon	TM132	97.69 93.61 : 106.00	96.3 93.61 : 106.00	95.2 93.61 : 106.00	95.05 93.61 : 106.00	96.0 93.61 : 106.00	96.89 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251114-62
Client Ref: UK-70100310

Report Number: 784698
Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	03 December 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251115-42
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	784798
Order Number:	UK-70100310

We received 50 samples on Friday November 14, 2025 and 50 of these samples were scheduled for analysis which was completed on Wednesday December 03, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32461034	GR03-SP319-A	ES	0.00 - 0.10	13/11/2025
32461152	GR03-SP319-A	WS	0.00 - 0.50	13/11/2025
32461037	GR03-SP319-A	ES	0.30 - 0.40	13/11/2025
32461039	GR03-SP319-A	ES	0.40 - 0.50	13/11/2025
32461091	GR04-SP430-A	ES	0.00 - 0.10	13/11/2025
32461094	GR04-SP430-A	WS	0.00 - 0.50	13/11/2025
32461097	GR04-SP430-A	ES	0.20 - 0.30	13/11/2025
32461102	GR04-SP430-A	ES	0.40 - 0.50	13/11/2025
32461133	GR04-SP442-A	ES	0.00 - 0.10	13/11/2025
32461167	GR04-SP442-A	WS	0.00 - 0.50	13/11/2025
32461135	GR04-SP442-A	ES	0.30 - 0.40	13/11/2025
32461138	GR04-SP442-A	ES	0.40 - 0.50	13/11/2025
32461170	GR03-SP319-B	ESALS	0.10 - 0.20	13/11/2025
32461041	GR03-SP319-B	ES	0.20 - 0.30	13/11/2025
32461043	GR03-SP319-B	ES	0.50 - 0.60	13/11/2025
32461018	GR03-SP319-B	WT	0.50 - 0.60	13/11/2025
32461109	GR04-SP430-B	ES	0.10 - 0.20	13/11/2025
32461070	GR04-SP430-B	WT	0.30 - 0.40	13/11/2025
32461175	GR04-SP430-B	ESALS	0.30 - 0.40	13/11/2025
32461115	GR04-SP430-B	ES	0.50 - 0.60	13/11/2025
32461141	GR04-SP442-B	ES	0.10 - 0.20	13/11/2025
32461144	GR04-SP442-B	ES	0.20 - 0.30	13/11/2025
32461021	GR04-SP442-B	ESALS	0.50 - 0.60	13/11/2025
32461122	GR04-SP430-C	ES	0.10 - 0.20	13/11/2025
32461125	GR04-SP430-C	ES	0.30 - 0.40	13/11/2025
32461129	GR04-SP430-C	ES	0.50 - 0.60	13/11/2025
32461148	GR04-SP442-C	ES	0.00 - 0.10	13/11/2025
32461118	GR04-SP442-C	WT	0.00 - 0.10	13/11/2025
32461150	GR04-SP442-C	ES	0.20 - 0.30	13/11/2025
32461162	GR04-SP442-C	ES	0.40 - 0.50	13/11/2025
32461049	GR03-SP319-C-S1	ES	0.00 - 0.10	13/11/2025
32461024	GR03-SP319-C-S1	ESA2	0.20 - 0.30	13/11/2025
32461029	GR03-SP319-C-S1	ESA1	0.20 - 0.30	13/11/2025
32461051	GR03-SP319-C-S1	ES	0.40 - 0.50	13/11/2025
32461026	GR03-SP319-C-S2	ESA2	0.20 - 0.30	13/11/2025
32461031	GR03-SP319-C-S2	ESA1	0.20 - 0.30	13/11/2025
32461053	GR03-SP319-D	ES	0.10 - 0.20	13/11/2025
32461055	GR03-SP319-D	ES	0.30 - 0.40	13/11/2025
32461057	GR03-SP319-D	ES	0.50 - 0.60	13/11/2025
32461059	GR03-SP319-E	ES	0.00 - 0.10	13/11/2025
32461061	GR03-SP319-E	WS	0.00 - 0.60	13/11/2025
32461064	GR03-SP319-E	ES	0.30 - 0.40	13/11/2025
32461066	GR03-SP319-E	ES	0.40 - 0.50	13/11/2025
32461172	GR03-SP319-F	ESALS	0.10 - 0.20	13/11/2025
32461068	GR03-SP319-F	ES	0.20 - 0.30	13/11/2025
32461073	GR03-SP319-F	ES	0.50 - 0.60	13/11/2025
32461078	GR03-SP319-G	ES	0.00 - 0.10	13/11/2025
32461045	GR03-SP319-G	WT	0.00 - 0.10	13/11/2025
32461080	GR03-SP319-G	ES	0.20 - 0.30	13/11/2025
32461088	GR03-SP319-G	ES	0.40 - 0.50	13/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32461175	GR04-SP430-B	ESALS	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S						
	32461070	GR04-SP430-B	WT	0.30 - 0.40	50ml digitube (ALE001)	PW						
	32461109	GR04-SP430-B	ES	0.10 - 0.20	1 kg TUB with Handle (ALE260)	S						
	32461018	GR03-SP319-B	WT	0.50 - 0.60	50ml digitube (ALE001)	PW						
	32461043	GR03-SP319-B	ES	0.50 - 0.60	1 kg TUB with Handle (ALE260)	S						
PFAS in soils	32461041	GR03-SP319-B	ES	0.20 - 0.30	1 kg TUB with Handle (ALE260)	S						
	32461170	GR03-SP319-B	ESALS	0.10 - 0.20	1 kg TUB with Handle (ALE260)	S						
	32461138	GR04-SP442-A	ES	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S						
	32461135	GR04-SP442-A	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S						
	32461167	GR04-SP442-A	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
	32461133	GR04-SP442-A	ES	0.00 - 0.10	1 kg TUB with Handle (ALE260)	S						
	32461102	GR04-SP430-A	ES	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S						
	32461097	GR04-SP430-A	ES	0.20 - 0.30	1 kg TUB with Handle (ALE260)	S						
	32461094	GR04-SP430-A	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
	32461091	GR04-SP430-A	ES	0.00 - 0.10	1 kg TUB with Handle (ALE260)	S						
	32461039	GR03-SP319-A	ES	0.40 - 0.50	1 kg TUB with Handle (ALE260)	S						
	32461037	GR03-SP319-A	ES	0.30 - 0.40	1 kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32461152	GR03-SP319-A	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
	32461034	GR03-SP319-A	ES	0.00 - 0.10	1 kg TUB with Handle (ALE260)	S						
pH												
Sample description												
Total Organic Carbon												

32461059	GR03-SP319-E	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461057	GR03-SP319-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461055	GR03-SP319-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461053	GR03-SP319-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461031	GR03-SP319-C-S2	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461026	GR03-SP319-C-S2	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461051	GR03-SP319-C-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461029	GR03-SP319-C-S1	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461024	GR03-SP319-C-S1	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461049	GR03-SP319-C-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461162	GR04-SP442-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461150	GR04-SP442-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461118	GR04-SP442-C	WT	0.00 - 0.10	50ml digitube (ALE001)	PW		X								
32461148	GR04-SP442-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461129	GR04-SP430-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461125	GR04-SP430-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461122	GR04-SP430-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461021	GR04-SP442-B	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461144	GR04-SP442-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461141	GR04-SP442-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X				X		X			X
32461115	GR04-SP430-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X				X		X			X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS in soils

All

NDPs: 0
Tests: 42

PFAS Liquids (Full Suite)

All

NDPs: 0
Tests: 8

pH

All

NDPs: 0
Tests: 42

Sample description

All

NDPs: 0
Tests: 40

Total Organic Carbon

All

NDPs: 0
Tests: 42

32461061	32461064	32461066	32461172	32461068	32461073	32461078	32461045	32461080	32461088
GR03-SP319-E	GR03-SP319-E	GR03-SP319-E	GR03-SP319-F	GR03-SP319-F	GR03-SP319-F	GR03-SP319-G	GR03-SP319-G	GR03-SP319-G	GR03-SP319-G
WS	ES	ES	ESALS	ES	ES	ES	WT	ES	ES
0.00 - 0.60	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
50ml digtube (ALE001)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)	50ml digtube (ALE001)	1kg TUB with Handle (ALE260)	1kg TUB with Handle (ALE260)
PW	S	S	S	S	S	S	PW	S	S

	X	X	X	X	X	X		X	X

X							X		

	X	X	X	X	X	X		X	X

	X	X	X	X	X	X		X	X

	X	X	X	X	X	X		X	X



CERTIFICATE OF ANALYSIS

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SDG: 251115-42
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Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32461034	GR03-SP319-A	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32461037	GR03-SP319-A	0.30 - 0.40	Dark Brown	Sandy Clay	Vegetation	Brick
32461039	GR03-SP319-A	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32461091	GR04-SP430-A	0.00 - 0.10	Dark Brown	Loamy Sand	Stones	Vegetation
32461097	GR04-SP430-A	0.20 - 0.30	Dark Brown	Loamy Sand	Stones	Vegetation
32461102	GR04-SP430-A	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation
32461133	GR04-SP442-A	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Brick	Stones
32461135	GR04-SP442-A	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32461138	GR04-SP442-A	0.40 - 0.50	Light Brown	Silty Clay Loam	Stones	Vegetation
32461041	GR03-SP319-B	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32461043	GR03-SP319-B	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Vegetation	None
32461170	GR03-SP319-B	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32461109	GR04-SP430-B	0.10 - 0.20	Dark Brown	Loamy Sand	Stones	Vegetation
32461115	GR04-SP430-B	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	Stones
32461175	GR04-SP430-B	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32461021	GR04-SP442-B	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461141	GR04-SP442-B	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32461144	GR04-SP442-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	None
32461122	GR04-SP430-C	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32461125	GR04-SP430-C	0.30 - 0.40	Dark Brown	Loamy Sand	Stones	Vegetation
32461129	GR04-SP430-C	0.50 - 0.60	Dark Brown	Loamy Sand	Stones	Glass
32461148	GR04-SP442-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461150	GR04-SP442-C	0.20 - 0.30	Light Brown	Sandy Clay Loam	Stones	Vegetation
32461162	GR04-SP442-C	0.40 - 0.50	Light Brown	Silty Clay Loam	Vegetation	Stones
32461024	GR03-SP319-C-S1	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Vegetation
32461029	GR03-SP319-C-S1	0.20 - 0.30	Dark Brown	Sandy Clay	Stones	Vegetation
32461049	GR03-SP319-C-S1	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32461051	GR03-SP319-C-S1	0.40 - 0.50	Dark Brown	Sandy Loam	Stones	Vegetation
32461026	GR03-SP319-C-S2	0.20 - 0.30	Dark Brown	Sandy Loam	Vegetation	Brick
32461031	GR03-SP319-C-S2	0.20 - 0.30	Dark Brown	Sandy Loam	Stones	Brick
32461053	GR03-SP319-D	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461055	GR03-SP319-D	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32461057	GR03-SP319-D	0.50 - 0.60	Dark Brown	Sandy Clay	Vegetation	None
32461059	GR03-SP319-E	0.00 - 0.10	Dark Brown	Sandy Loam	Stones	Vegetation
32461064	GR03-SP319-E	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461066	GR03-SP319-E	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461068	GR03-SP319-F	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461073	GR03-SP319-F	0.50 - 0.60	Dark Brown	Silty Clay Loam	None	None
32461172	GR03-SP319-F	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

			Colour	Description	Inclusions	Inclusions 2
32461078	GR03-SP319-G	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32461080	GR03-SP319-G	0.20 - 0.30	Dark Brown	Sandy Clay	Stones	Vegetation
32461088	GR03-SP319-G	0.40 - 0.50	Dark Brown	Sandy Clay	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR04-SP430-A	GR04-SP430-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
Subcontracted - refer to subcontractor report for accreditation status.					32461034	32461152	32461037	32461039	32461091	32461094
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	WS
*** 6.2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002				<0.002
PFMOPra (377-73-1)	<0.001 µg/l	TM434				<0.001				<0.001
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005				<0.005
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001				<0.001
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001				<0.001
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001				<0.001
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003				<0.003
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001				<0.001
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001				<0.001
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001				<0.001
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001				<0.001
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001				<0.001
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005				<0.005
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001				<0.001
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001				<0.001
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001				<0.001
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065				<0.00065
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001				<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001				<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001				<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002				<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005				<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002				<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002				<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005				<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065				<0.00065
Branched PFOS	<0.00065 µg/l	TM434				<0.00065				<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002				<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001				<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001				<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001				<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR04-SP430-A	GR04-SP430-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461034	32461152	32461037	32461039	32461091	32461094
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WS	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				<0.01
Total PFOS	<0.00065 µg/l	TM434				<0.00065				<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			27		14	18	24	
Soil Organic Matter (SOM)	<0.35 %	TM132			8.5		2.19	1.71	19.1	
pH	1 pH Units	TM133			8.08		8.35	8.26	7.81	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	1.91	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR04-SP430-A	GR04-SP430-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 13/11/2025	0.00 - 0.50 Process Water (PR) 13/11/2025	0.30 - 0.40 Soil/Solid (S) 13/11/2025	0.40 - 0.50 Soil/Solid (S) 13/11/2025	0.00 - 0.10 Soil/Solid (S) 13/11/2025	0.00 - 0.50 Process Water (PR) 13/11/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		3.21		1.24	1.12	1.96	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10		<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9		<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4		<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	1.05	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5		<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4		<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8		<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6		<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7		<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP430-A	GR04-SP430-A	GR04-SP442-A	GR04-SP442-A	GR04-SP442-A	GR04-SP442-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
Subcontracted - refer to subcontractor report for accreditation status.					32461097	32461102	32461133	32461167	32461135	32461138
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WS	ES	ES
*** 6.2 FTAB (see appendix)										
1-4**@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002		
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002		
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP430-A	GR04-SP430-A	GR04-SP442-A	GR04-SP442-A	GR04-SP442-A	GR04-SP442-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.30 - 0.40	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461097	32461102	32461133	32461167	32461135	32461138
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WS	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	24		25		28		22	
Soil Organic Matter (SOM)	<0.35 %	TM132	24.1	#	13.7	#	7.86	#	4.21	#
pH	1 pH Units	TM133	8.08	M	7.71	M	7.02	M	7.26	M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8		<0.8		<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8		<1.8		<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1		<1		<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5		<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP430-A	GR04-SP430-A	GR04-SP442-A	GR04-SP442-A	GR04-SP442-A	GR04-SP442-A
# ISO17025 accredited. m MCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461097 ES	0.40 - 0.50 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461102 ES	0.00 - 0.10 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461133 ES	0.00 - 0.50 Process Water (PR) 13/11/2025 14/11/2025 251115-42 32461167 WS	0.30 - 0.40 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461135 ES	0.40 - 0.50 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461138 ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		2.15	4.86	4.32		4.04	2.68
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	2.71		2.41	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-B	GR03-SP319-B	GR03-SP319-B	GR03-SP319-B	GR04-SP430-B	GR04-SP430-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
Subcontracted - refer to subcontractor report for accreditation status.					32461170	32461041	32461043	32461018	32461109	32461070
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	WT	ES	WT
*** 6.2 FTAB (see appendix)										
1-4* \$@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		<0.002
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		<0.001
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		<0.005
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		<0.001
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		<0.001
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		<0.001
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		<0.003
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		<0.001
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		<0.001
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		<0.002
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		<0.001
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		<0.001
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		<0.001
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		<0.005
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		<0.001
6:2 FTS (276199-97-2)	<0.001 µg/l	TM434						<0.001		<0.001
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		<0.001
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		<0.00065
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002		<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		<0.00065
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002		<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-B	GR03-SP319-B	GR03-SP319-B	GR03-SP319-B	GR04-SP430-B	GR04-SP430-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461170	32461041	32461043	32461018	32461109	32461070
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	WT	ES	WT
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		<0.01
Total PFOS	<0.00065 µg/l	TM434						<0.00065		<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			16	18	21		27	
Soil Organic Matter (SOM)	<0.35 %	TM132			7.33	2.84	2.62		17.2	
pH	1 pH Units	TM133			8.36	8.41	7.66		7.64	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		0.953	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8		<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1		<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP319-B		GR03-SP319-B		GR03-SP319-B		GR03-SP319-B		GR04-SP430-B		GR04-SP430-B	
#	ISO17025 accredited.			Depth (m)		0.10 - 0.20		0.20 - 0.30		0.50 - 0.60		0.50 - 0.60		0.10 - 0.20	
m	mCERTS accredited.			Sample Type		Soil/Solid (S)		Soil/Solid (S)		Soil/Solid (S)		Process Water (PR)		Soil/Solid (S)	
aq	Aqueous / settled sample.			Date Sampled		13/11/2025		13/11/2025		13/11/2025		13/11/2025		13/11/2025	
diss.filt	Dissolved / filtered sample.			Sample Time		14/11/2025		14/11/2025		14/11/2025		14/11/2025		14/11/2025	
tot.unfilt	Total / unfiltered sample.			Date Received		251115-42		251115-42		251115-42		251115-42		251115-42	
* Subcontracted - refer to subcontractor report for accreditation status.				SDG Ref		32461170		32461041		32461043		32461018		32461109	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				Lab Sample No.(s)		ESALS		ES		ES		WT		ES	
*** 6:2 FTAB (see appendix)				AGS Reference											
1-4* Sample deviation (see appendix)															
Component		LOD/Units	Method												
PFHpA (375-85-9)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFPeS (2706-91-4)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
ADONA (919005-14-4)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
6:2 FTS (27619-97-2)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
5:3 FTCA (914637-49-3)		<2.5 µg/kg	TM440			<2.5		<2.5		<2.5		<2.5			
PFOA (335-67-1)		<0.5 µg/kg	TM440			3.37		4.72		12.5		2.6			
PFHxS (355-46-4)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
FBSA (30334-69-1)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
6:2 FTAB (34455-29-3)***		<10 µg/kg	TM440			<10		<10		<10		<10			
PFNA (375-95-1)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFechS (133201-07-7)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFHpS (375-92-8)		<0.6 µg/kg	TM440			<0.6		<0.6		<0.6		<0.6			
8:2 FTS (39108-34-4)		<0.9 µg/kg	TM440			<0.9		<0.9		<0.9		<0.9			
HFPO-TA (13252-14-7)		<4.4 µg/kg	TM440			<4.4		<4.4		<4.4		<4.4			
PFDA (335-76-2)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
MeFOSAA (2355-31-9)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
Branched PFOS		<0.6 µg/kg	TM440			<0.6		<0.6		<0.6		<0.6			
Linear PFOS (1763-23-1)		<0.6 µg/kg	TM440			<0.6		<0.6		<0.6		<0.6			
7:3 FTCA (812-70-4)		<2.5 µg/kg	TM440			<2.5		<2.5		<2.5		<2.5			
EtFOSAA (2991-50-6)		<1.4 µg/kg	TM440			<1.4		<1.4		<1.4		<1.4			
PFUnA (2058-94-8)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
9CI-PF3ONS (756426-58-1)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
10:2 FTS (120226-60-0)		<0.8 µg/kg	TM440			<0.8		<0.8		<0.8		<0.8			
FHxSA (41997-13-1)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFNS (68259-12-1)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFDoA (307-55-1)		<0.6 µg/kg	TM440			<0.6		<0.6		<0.6		<0.6			
PFDS (335-77-3)		<0.6 µg/kg	TM440			<0.6		<0.6		<0.6		<0.6			
PFTrDA (72629-94-8)		<0.6 µg/kg	TM440			<0.6		<0.6		<0.6		<0.6			
11CI-PF3OUdS (763051-92-9)		<0.7 µg/kg	TM440			<0.7		<0.7		<0.7		<0.7			
PFUnDS (749786-16-1)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFTeA (376-06-7)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFOSA (754-91-6)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			
PFDoS (79780-39-5)		<0.5 µg/kg	TM440			<0.5		<0.5		<0.5		<0.5			

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP430-B	GR04-SP430-B	GR04-SP442-B	GR04-SP442-B	GR04-SP442-B	GR04-SP430-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461175	32461115	32461141	32461144	32461021	32461122
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	ES	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			27	28	19	20	18	28
Soil Organic Matter (SOM)	<0.35 %	TM132			21.6	10.8	1.95	1.86	1.34	25.5
					#	#	#	#	#	#
pH	1 pH Units	TM133			7.8	7.52	5.7	6.1	6.67	7.78
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			0.82	<0.5	<0.5	<0.5	<0.5	1.34
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.07	5.44	<0.5	1.31	2.35	2.28
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	1.48	1.08	0.855	0.934
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP430-C	GR04-SP430-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461125	32461129	32461148	32461118	32461150	32461162
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002		
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002		
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP430-C	GR04-SP430-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461125	32461129	32461148	32461118	32461150	32461162
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	32		26	25			24	18
Soil Organic Matter (SOM)	<0.35 %	TM132	47.1	#	34	3.38	#		3.78	1.5
pH	1 pH Units	TM133	8.13	M	8.26	6.25	M		7.09	7.28
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8	<0.8			<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8	<1.8			<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1	<1			<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5	<0.5			<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP430-C	GR04-SP430-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C
# ISO17025 accredited. m MCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461125 ES	0.50 - 0.60 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461129 ES	0.00 - 0.10 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461148 ES	0.00 - 0.10 Process Water (PR) 13/11/2025 14/11/2025 251115-42 32461118 WT	0.20 - 0.30 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461150 ES	0.40 - 0.50 Soil/Solid (S) 13/11/2025 14/11/2025 251115-42 32461162 ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		4.05	1.79	1.74		1.73	1.94
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	1.89		1.18	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP319-C-S1	GR03-SP319-C-S1	GR03-SP319-C-S1	GR03-SP319-C-S1	GR03-SP319-C-S2	GR03-SP319-C-S2
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)	1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	16	19	17	21	17	15	
Soil Organic Matter (SOM)	<0.35 %	TM132	7.98	5.4	6.74	3.29	4.17	3.21	
pH	1 pH Units	TM133	7.94	8.22	8.42	7.62	8.06	8.31	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.92	3.78	2.09	17.6	2.16	2.57	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	0.761	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.01	0.881	<0.6	<0.6	<0.6	0.851	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-D	GR03-SP319-D	GR03-SP319-D	GR03-SP319-E	GR03-SP319-E	GR03-SP319-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.60	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461053	32461055	32461057	32461059	32461061	32461064
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	◆
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	◆
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-D	GR03-SP319-D	GR03-SP319-D	GR03-SP319-E	GR03-SP319-E	GR03-SP319-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.60	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461053	32461055	32461057	32461059	32461061	32461064
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WS	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024			18	21	22	25		16
Soil Organic Matter (SOM)	<0.35 %	TM132			3.07	1.88	3.09	11.4		3.93
pH	1 pH Units	TM133			8.29	8.31	7.28	7.94		8.23
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		0.662
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8		<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1		<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-D	GR03-SP319-D	GR03-SP319-D	GR03-SP319-E	GR03-SP319-E	GR03-SP319-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.60	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461053	32461055	32461057	32461059	32461061	32461064
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	0.666	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.73	5.11	81.1	3.52		3.73
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.706		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.821		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	0.853		0.773
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR03-SP319-E	GR03-SP319-F	GR03-SP319-F	GR03-SP319-F	GR03-SP319-G	GR03-SP319-G
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6.2 FTAB (see appendix)									
1-4**@Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)						
PFBA (375-22-4)	<0.002 µg/l	TM434	Sample Type	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10
PFMOPra (377-73-1)	<0.001 µg/l	TM434	Date Sampled	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Sample Time	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
PFPA (2706-90-3)	<0.001 µg/l	TM434	Date Received	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	SDG Ref	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	Lab Sample No.(s)	32461066	32461172	32461068	32461073	32461078	32461045
NFDHA (151772-58-6)	<0.003 µg/l	TM434	AGS Reference	ES	ESALS	ES	ES	ES	WT
PFBS (375-73-5)	<0.001 µg/l	TM434							
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434							
PFHxS (355-46-4)	<0.001 µg/l	TM434							
PFNA (375-95-1)	<0.001 µg/l	TM434							
PFHpS (375-92-8)	<0.001 µg/l	TM434							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							
PFDA (335-76-2)	<0.002 µg/l	TM434							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							
Branched PFOS	<0.00065 µg/l	TM434							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							
PFUnA (2058-94-8)	<0.002 µg/l	TM434							
9Cl-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							
PFNS (68259-12-1)	<0.001 µg/l	TM434							
FHxSA (41997-13-1)	<0.001 µg/l	TM434							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-E	GR03-SP319-F	GR03-SP319-F	GR03-SP319-F	GR03-SP319-G	GR03-SP319-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025
diss.filt	Dissolved / filtered sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
tot.unfilt	Total / unfiltered sample.				251115-42	251115-42	251115-42	251115-42	251115-42	251115-42
* Subcontracted - refer to subcontractor report for accreditation status.					32461066	32461172	32461068	32461073	32461078	32461045
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ES	ES	ES	WT
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434								<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024	23	18	17	16	20			
Soil Organic Matter (SOM)	<0.35 %	TM132	4.1	7.29	3.65	0.905	6.33			
			#	#	#	#	#			
pH	1 pH Units	TM133	8.14	8.34	8.5	8.29	8.23			
			M	M	M	M	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
4:2 FTS (75124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP319-E	GR03-SP319-F	GR03-SP319-F	GR03-SP319-F	GR03-SP319-G	GR03-SP319-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 13/11/2025	0.10 - 0.20 Soil/Solid (S) 13/11/2025	0.20 - 0.30 Soil/Solid (S) 13/11/2025	0.50 - 0.60 Soil/Solid (S) 13/11/2025	0.00 - 0.10 Soil/Solid (S) 13/11/2025	0.00 - 0.10 Process Water (PR) 13/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					14/11/2025 251115-42 32461066 ES	14/11/2025 251115-42 32461172 ESALS	14/11/2025 251115-42 32461068 ES	14/11/2025 251115-42 32461073 ES	14/11/2025 251115-42 32461078 ES	14/11/2025 251115-42 32461045 WT
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			9.08	1.36	1.32	12.5	2.32	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			0.822	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			0.713	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			0.807	<0.6	<0.6	<0.6	0.819	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

Results Legend		Customer Sample Ref.	GR03-SP319-G	GR03-SP319-G				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6.2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	20	16				
Soil Organic Matter (SOM)	<0.35 %	TM132	4.74	2.17				
pH	1 pH Units	TM133	8.35	7.98				
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440	7.72	9.14				
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5				
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42

Report Number: 784798

Superseded Report:

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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SDG: 251115-42
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Location: Thornton Phase 3

Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32461034	32461037	32461039	32461152	32461091	32461094	32461097	32461102	32461133	32461135
	GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR03-SP319-A	GR04-SP430-A	GR04-SP430-A	GR04-SP430-A	GR04-SP430-A	GR04-SP442-A	GR04-SP442-A
	ES	ES	ES	WS	ES	WS	ES	ES	ES	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.50	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	02-Dec-2025	02-Dec-2025	28-Nov-2025		28-Nov-2025		28-Nov-2025	02-Dec-2025	28-Nov-2025	28-Nov-2025
PFAS Liquids (Full Suite)				28-Nov-2025		01-Dec-2025				
pH	20-Nov-2025	17-Nov-2025	18-Nov-2025		18-Nov-2025		20-Nov-2025	17-Nov-2025	20-Nov-2025	20-Nov-2025
Sample description	17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025		17-Nov-2025	17-Nov-2025	15-Nov-2025	15-Nov-2025
Total Organic Carbon	21-Nov-2025	21-Nov-2025	21-Nov-2025		21-Nov-2025		25-Nov-2025	24-Nov-2025	25-Nov-2025	24-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32461138	32461167	32461018	32461041	32461043	32461170	32461070	32461109	32461115	32461175
	GR04-SP442-A	GR04-SP442-A	GR03-SP319-B	GR03-SP319-B	GR03-SP319-B	GR03-SP319-B	GR04-SP430-B	GR04-SP430-B	GR04-SP430-B	GR04-SP430-B
	ES	WS	WT	ES	ES	ESALS	WT	ES	ES	ESALS
	0.40 - 0.50	0.00 - 0.50	0.50 - 0.60	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.10 - 0.20	0.50 - 0.60	0.30 - 0.40
	Soil/Solid (S)	Process	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	28-Nov-2025			02-Dec-2025	02-Dec-2025	28-Nov-2025		28-Nov-2025	02-Dec-2025	02-Dec-2025
PFAS Liquids (Full Suite)		01-Dec-2025	01-Dec-2025				01-Dec-2025			
pH	20-Nov-2025			20-Nov-2025	18-Nov-2025	20-Nov-2025		18-Nov-2025	18-Nov-2025	17-Nov-2025
Sample description	15-Nov-2025			17-Nov-2025	17-Nov-2025	17-Nov-2025		17-Nov-2025	17-Nov-2025	17-Nov-2025
Total Organic Carbon	25-Nov-2025			24-Nov-2025	24-Nov-2025	24-Nov-2025		25-Nov-2025	24-Nov-2025	25-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32461021	32461141	32461144	32461122	32461125	32461129	32461118	32461148	32461150	32461162
	GR04-SP442-B	GR04-SP442-B	GR04-SP442-B	GR04-SP430-C	GR04-SP430-C	GR04-SP430-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C	GR04-SP442-C
	ESALS	ES	ES	ES	ES	ES	WT	ES	ES	ES
	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	28-Nov-2025	28-Nov-2025	03-Dec-2025	28-Nov-2025	03-Dec-2025	28-Nov-2025		28-Nov-2025	28-Nov-2025	03-Dec-2025
PFAS Liquids (Full Suite)							28-Nov-2025			
pH	20-Nov-2025	20-Nov-2025	20-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025		20-Nov-2025	20-Nov-2025	20-Nov-2025
Sample description	15-Nov-2025	15-Nov-2025	15-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025		15-Nov-2025	15-Nov-2025	15-Nov-2025
Total Organic Carbon	25-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025		25-Nov-2025	25-Nov-2025	25-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32461024	32461029	32461049	32461051	32461026	32461031	32461053	32461055	32461057	32461059
	GR03-SP319-C-S1	GR03-SP319-C-S1	GR03-SP319-C-S1	GR03-SP319-C-S1	GR03-SP319-C-S2	GR03-SP319-C-S2	GR03-SP319-D	GR03-SP319-D	GR03-SP319-D	GR03-SP319-E
	ESA2	ESA1	ES	ES	ESA2	ESA1	ES	ES	ES	ES
	0.20 - 0.30	0.20 - 0.30	0.00 - 0.10	0.40 - 0.50	0.20 - 0.30	0.20 - 0.30	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	28-Nov-2025	02-Dec-2025	02-Dec-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025
pH	17-Nov-2025	17-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	18-Nov-2025	17-Nov-2025	17-Nov-2025	20-Nov-2025	17-Nov-2025
Sample description	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025	17-Nov-2025
Total Organic Carbon	24-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025	21-Nov-2025	25-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	25-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32461061	32461064	32461066	32461068	32461073	32461172	32461045	32461078	32461080	32461088
	GR03-SP319-E	GR03-SP319-E	GR03-SP319-E	GR03-SP319-F	GR03-SP319-F	GR03-SP319-F	GR03-SP319-G	GR03-SP319-G	GR03-SP319-G	GR03-SP319-G
	WS	ES	ES	ES	ES	ESALS	WT	ES	ES	ES
	0.00 - 0.60	0.30 - 0.40	0.40 - 0.50	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		28-Nov-2025	28-Nov-2025	28-Nov-2025	03-Dec-2025	28-Nov-2025		03-Dec-2025	28-Nov-2025	28-Nov-2025
PFAS Liquids (Full Suite)	28-Nov-2025						01-Dec-2025			
pH		17-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	17-Nov-2025		20-Nov-2025	20-Nov-2025	20-Nov-2025
Sample description		17-Nov-2025	17-Nov-2025	17-Nov-2025	15-Nov-2025	17-Nov-2025		15-Nov-2025	17-Nov-2025	17-Nov-2025
Total Organic Carbon		24-Nov-2025	25-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025		24-Nov-2025	25-Nov-2025	25-Nov-2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3237	QC 3276	QC 3265	QC 3289	QC 3260	QC 3203
10:2 FTS (Raw)	TM440	90.9 53.10 : 140.00	124.51 53.10 : 140.00	109.71 53.10 : 140.00	108.41 53.10 : 140.00	92.13 53.10 : 140.00	86.45 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	95.11 53.56 : 141.19	99.0 53.56 : 141.19	110.92 53.56 : 141.19	103.25 53.56 : 141.19	103.77 53.56 : 141.19	122.07 53.56 : 141.19
3:3 FTCA (Raw)	TM440	101.81 50.54 : 133.25	86.98 50.54 : 133.25	103.12 50.54 : 133.25	115.11 50.54 : 133.25	117.81 50.54 : 133.25	106.81 50.54 : 133.25
4:2 FTS (Raw)	TM440	99.29 56.34 : 145.91	87.7 56.34 : 145.91	96.39 56.34 : 145.91	102.79 56.34 : 145.91	99.77 56.34 : 145.91	108.06 56.34 : 145.91
5:3 FTCA (Raw)	TM440	106.8 52.66 : 130.08	89.14 52.66 : 130.08	97.14 52.66 : 130.08	94.18 52.66 : 130.08	94.14 52.66 : 130.08	101.76 52.66 : 130.08
6:2 FTAB (Raw)	TM440	40.04 38.50 : 101.50	29.17 38.50 : 101.50	40.53 38.50 : 101.50	30.43 38.50 : 101.50	36.24 38.50 : 101.50	39.4 38.50 : 101.50
6:2 FTS (Raw)	TM440	93.42 54.79 : 144.46	92.1 54.79 : 144.46	100.96 54.79 : 144.46	97.53 54.79 : 144.46	100.14 54.79 : 144.46	111.26 54.79 : 144.46
7:3 FTCA (Raw)	TM440	87.11 48.60 : 128.14	95.96 48.60 : 128.14	97.29 48.60 : 128.14	96.23 48.60 : 128.14	87.49 48.60 : 128.14	103.94 48.60 : 128.14
8:2 diPAP (Raw)	TM440	96.45 56.03 : 147.72	81.2 56.03 : 147.72	84.28 56.03 : 147.72	88.22 56.03 : 147.72	91.18 56.03 : 147.72	92.58 56.03 : 147.72
8:2 FTS (Raw)	TM440	111.21 55.74 : 146.96	88.58 55.74 : 146.96	111.86 55.74 : 146.96	103.92 55.74 : 146.96	91.45 55.74 : 146.96	109.7 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	112.34 54.59 : 143.91	83.16 54.59 : 143.91	115.07 54.59 : 143.91	98.25 54.59 : 143.91	101.1 54.59 : 143.91	103.04 54.59 : 143.91
ADONA (Raw)	TM440	97.09 54.01 : 132.33	83.46 54.01 : 132.33	97.37 54.01 : 132.33	95.87 54.01 : 132.33	93.14 54.01 : 132.33	100.83 54.01 : 132.33
Branched PFOS (Raw)	TM440	99.35 54.09 : 142.61	72.82 54.09 : 142.61	107.33 54.09 : 142.61	106.23 54.09 : 142.61	113.62 54.09 : 142.61	107.44 54.09 : 142.61
EtFOSAA (Raw)	TM440	98.57 52.48 : 138.36	80.65 52.48 : 138.36	103.14 52.48 : 138.36	115.94 52.48 : 138.36	95.21 52.48 : 138.36	113.03 52.48 : 138.36
EtFOSE (Raw)	TM440	112.46 57.05 : 145.29	78.72 57.05 : 145.29	102.32 57.05 : 145.29	102.33 57.05 : 145.29	98.54 57.05 : 145.29	109.8 57.05 : 145.29
FBSA (Raw)	TM440	89.53 49.51 : 125.13	70.81 49.51 : 125.13	88.69 49.51 : 125.13	87.11 49.51 : 125.13	91.8 49.51 : 125.13	100.26 49.51 : 125.13
FHxSA (Raw)	TM440	90.34 50.38 : 132.82	76.13 50.38 : 132.82	90.15 50.38 : 132.82	84.95 50.38 : 132.82	86.01 50.38 : 132.82	90.4 50.38 : 132.82
HFPO-DA (Raw)	TM440	95.91 53.47 : 140.98	79.23 53.47 : 140.98	103.42 53.47 : 140.98	102.9 53.47 : 140.98	96.7 53.47 : 140.98	113.02 53.47 : 140.98
HFPO-TA (Raw)	TM440	208.21 44.84 : 118.21	210.64 44.84 : 118.21	215.39 44.84 : 118.21	241.73 44.84 : 118.21	223.47 44.84 : 118.21	245.45 44.84 : 118.21
L-PFOS (Raw)	TM440	100.53 54.09 : 142.61	72.82 54.09 : 142.61	115.72 54.09 : 142.61	106.23 54.09 : 142.61	113.62 54.09 : 142.61	107.44 54.09 : 142.61
MeFOSAA (Raw)	TM440	114.67 53.02 : 139.78	90.02 53.02 : 139.78	111.22 53.02 : 139.78	98.29 53.02 : 139.78	100.22 53.02 : 139.78	108.52 53.02 : 139.78
MeFOSE (Raw)	TM440	105.85 54.99 : 144.97	86.23 54.99 : 144.97	93.67 54.99 : 144.97	103.67 54.99 : 144.97	104.12 54.99 : 144.97	103.61 54.99 : 144.97
N-EtFOSA (Raw)	TM440	99.0 59.56 : 132.93	79.09 59.56 : 132.93	89.98 59.56 : 132.93	101.41 59.56 : 132.93	97.85 59.56 : 132.93	104.72 59.56 : 132.93
NFDHA (Raw)	TM440	104.22 57.35 : 151.20	84.18 57.35 : 151.20	97.95 57.35 : 151.20	108.46 57.35 : 151.20	105.51 57.35 : 151.20	109.9 57.35 : 151.20
N-MeFOSA (Raw)	TM440	83.94 59.19 : 133.01	75.0 59.19 : 133.01	98.76 59.19 : 133.01	97.06 59.19 : 133.01	98.54 59.19 : 133.01	105.85 59.19 : 133.01
PFBA (Raw)	TM440	102.73 52.69 : 138.91	115.23 52.69 : 138.91	111.54 52.69 : 138.91	117.03 52.69 : 138.91	107.72 52.69 : 138.91	106.06 52.69 : 138.91



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
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Report Number: 784798
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Superseded Report:

PFAS in soils

		QC 3237	QC 3276	QC 3265	QC 3289	QC 3260	QC 3203
PFBS (Raw)	TM440	89.61 53.31 : 140.54	82.93 53.31 : 140.54	95.12 53.31 : 140.54	96.2 53.31 : 140.54	99.84 53.31 : 140.54	106.28 53.31 : 140.54
PFDA (Raw)	TM440	100.49 53.39 : 140.76	81.13 53.39 : 140.76	105.81 53.39 : 140.76	103.13 53.39 : 140.76	100.15 53.39 : 140.76	114.88 53.39 : 140.76
PFDoA (Raw)	TM440	100.54 52.85 : 139.34	87.4 52.85 : 139.34	106.54 52.85 : 139.34	108.24 52.85 : 139.34	110.62 52.85 : 139.34	106.06 52.85 : 139.34
PFDoS (Raw)	TM440	90.78 55.29 : 145.76	95.77 55.29 : 145.76	113.6 55.29 : 145.76	98.84 55.29 : 145.76	102.94 55.29 : 145.76	116.16 55.29 : 145.76
PFDS (Raw)	TM440	103.84 52.94 : 139.56	80.45 52.94 : 139.56	123.67 52.94 : 139.56	86.81 52.94 : 139.56	94.81 52.94 : 139.56	116.79 52.94 : 139.56
PFecHS (Raw)	TM440	89.46 50.75 : 133.80	73.73 50.75 : 133.80	94.52 50.75 : 133.80	104.75 50.75 : 133.80	86.2 50.75 : 133.80	101.55 50.75 : 133.80
PFEESA (Raw)	TM440	94.43 50.87 : 134.12	89.37 50.87 : 134.12	91.15 50.87 : 134.12	102.52 50.87 : 134.12	102.72 50.87 : 134.12	112.4 50.87 : 134.12
PFHpA (Raw)	TM440	100.18 52.61 : 138.69	87.47 52.61 : 138.69	104.36 52.61 : 138.69	108.94 52.61 : 138.69	104.35 52.61 : 138.69	110.15 52.61 : 138.69
PFHpS (Raw)	TM440	117.58 55.29 : 145.76	88.9 55.29 : 145.76	109.21 55.29 : 145.76	104.24 55.29 : 145.76	117.47 55.29 : 145.76	107.11 55.29 : 145.76
PFHxA (Raw)	TM440	102.22 54.05 : 142.50	86.19 54.05 : 142.50	100.78 54.05 : 142.50	109.16 54.05 : 142.50	103.08 54.05 : 142.50	111.28 54.05 : 142.50
PFHxDA (Raw)	TM440	98.5 52.03 : 137.17	83.38 52.03 : 137.17	97.72 52.03 : 137.17	101.85 52.03 : 137.17	104.14 52.03 : 137.17	108.95 52.03 : 137.17
PFHxS (Raw)	TM440	100.04 53.56 : 141.19	71.93 53.56 : 141.19	89.43 53.56 : 141.19	115.9 53.56 : 141.19	92.78 53.56 : 141.19	101.43 53.56 : 141.19
PFMOBA (Raw)	TM440	100.69 52.73 : 139.02	78.41 52.73 : 139.02	98.37 52.73 : 139.02	106.44 52.73 : 139.02	112.11 52.73 : 139.02	114.31 52.73 : 139.02
PFMOPra (Raw)	TM440	119.24 52.57 : 138.58	88.64 52.57 : 138.58	108.39 52.57 : 138.58	117.16 52.57 : 138.58	124.43 52.57 : 138.58	114.46 52.57 : 138.58
PFNA (Raw)	TM440	101.19 52.94 : 139.56	82.7 52.94 : 139.56	96.45 52.94 : 139.56	103.91 52.94 : 139.56	104.68 52.94 : 139.56	104.69 52.94 : 139.56
PFNS (Raw)	TM440	115.58 54.38 : 143.37	82.56 54.38 : 143.37	112.63 54.38 : 143.37	101.79 54.38 : 143.37	101.81 54.38 : 143.37	107.0 54.38 : 143.37
PFOA (Raw)	TM440	103.18 53.80 : 141.85	88.22 53.80 : 141.85	98.32 53.80 : 141.85	104.54 53.80 : 141.85	103.62 53.80 : 141.85	112.8 53.80 : 141.85
PFODA (Raw)	TM440	104.41 56.03 : 147.72	75.01 56.03 : 147.72	85.72 56.03 : 147.72	108.33 56.03 : 147.72	114.92 56.03 : 147.72	104.77 56.03 : 147.72
PFOSA (Raw)	TM440	96.86 53.10 : 140.00	79.97 53.10 : 140.00	97.6 53.10 : 140.00	95.23 53.10 : 140.00	94.39 53.10 : 140.00	102.87 53.10 : 140.00
PFPA (Raw)	TM440	101.63 53.89 : 142.06	82.49 53.89 : 142.06	101.09 53.89 : 142.06	107.91 53.89 : 142.06	109.71 53.89 : 142.06	109.16 53.89 : 142.06
PFPeS (Raw)	TM440	101.1 54.30 : 143.15	72.36 54.30 : 143.15	90.51 54.30 : 143.15	117.78 54.30 : 143.15	101.92 54.30 : 143.15	108.4 54.30 : 143.15
PFTeA (Raw)	TM440	107.04 53.06 : 139.89	89.08 53.06 : 139.89	109.28 53.06 : 139.89	114.96 53.06 : 139.89	114.51 53.06 : 139.89	100.58 53.06 : 139.89
PFTrDA (Raw)	TM440	101.14 51.70 : 136.30	87.97 51.70 : 136.30	100.01 51.70 : 136.30	109.83 51.70 : 136.30	114.3 51.70 : 136.30	101.64 51.70 : 136.30
PFTrDS (Raw)	TM440	107.85 56.24 : 148.26	95.5 56.24 : 148.26	105.61 56.24 : 148.26	97.16 56.24 : 148.26	104.48 56.24 : 148.26	112.62 56.24 : 148.26
PFUnA (Raw)	TM440	103.26 53.35 : 140.65	84.39 53.35 : 140.65	103.68 53.35 : 140.65	98.49 53.35 : 140.65	105.33 53.35 : 140.65	118.51 53.35 : 140.65
PFUnDS (Raw)	TM440	95.63 53.60 : 141.30	91.23 53.60 : 141.30	115.34 53.60 : 141.30	94.68 53.60 : 141.30	92.89 53.60 : 141.30	113.71 53.60 : 141.30



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

PFAS in soils

Component	Method Code	QC 3212	QC 3206
10:2 FTS (Raw)	TM440	91.09 53.10 : 140.00	102.53 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	119.37 53.56 : 141.19	99.93 53.56 : 141.19
3:3 FTCA (Raw)	TM440	112.51 50.54 : 133.25	113.88 50.54 : 133.25
4:2 FTS (Raw)	TM440	106.1 56.34 : 145.91	102.36 56.34 : 145.91
5:3 FTCA (Raw)	TM440	107.86 52.66 : 130.08	113.77 52.66 : 130.08
6:2 FTAB (Raw)	TM440	36.29 38.50 : 101.50	37.6 38.50 : 101.50
6:2 FTS (Raw)	TM440	94.99 54.79 : 144.46	97.62 54.79 : 144.46
7:3 FTCA (Raw)	TM440	102.86 48.60 : 128.14	103.59 48.60 : 128.14
8:2 diPAP (Raw)	TM440	96.05 56.03 : 147.72	81.43 56.03 : 147.72
8:2 FTS (Raw)	TM440	98.38 55.74 : 146.96	120.06 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	112.69 54.59 : 143.91	100.34 54.59 : 143.91
ADONA (Raw)	TM440	101.51 54.01 : 132.33	98.4 54.01 : 132.33
Branched PFOS (Raw)	TM440	116.33 54.09 : 142.61	100.64 54.09 : 142.61
EtFOSAA (Raw)	TM440	103.36 52.48 : 138.36	121.59 52.48 : 138.36
EtFOSE (Raw)	TM440	109.47 57.05 : 145.29	105.91 57.05 : 145.29
FBSA (Raw)	TM440	96.16 49.51 : 125.13	101.85 49.51 : 125.13
FHxSA (Raw)	TM440	93.69 50.38 : 132.82	94.78 50.38 : 132.82
HFPO-DA (Raw)	TM440	117.71 53.47 : 140.98	110.99 53.47 : 140.98
HFPO-TA (Raw)	TM440	244.82 44.84 : 118.21	245.02 44.84 : 118.21
L-PFOS (Raw)	TM440	116.33 54.09 : 142.61	100.64 54.09 : 142.61
MeFOSAA (Raw)	TM440	103.73 53.02 : 139.78	107.88 53.02 : 139.78
MeFOSE (Raw)	TM440	107.55 54.99 : 144.97	99.95 54.99 : 144.97
N-EtFOSA (Raw)	TM440	107.8 59.56 : 132.93	116.97 59.56 : 132.93
NFDHA (Raw)	TM440	107.42 57.35 : 151.20	112.75 57.35 : 151.20
N-MeFOSA (Raw)	TM440	103.03 59.19 : 133.01	93.61 59.19 : 133.01
PFBA (Raw)	TM440	101.33 52.69 : 138.91	106.78 52.69 : 138.91
PFBS (Raw)	TM440	107.01 53.31 : 140.54	96.28 53.31 : 140.54



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Superseded Report:

PFAS in soils

		QC 3212	QC 3206
PFDA (Raw)	TM440	110.66 53.39 : 140.76	117.14 53.39 : 140.76
PFDoA (Raw)	TM440	110.76 52.85 : 139.34	108.0 52.85 : 139.34
PFDoS (Raw)	TM440	113.76 55.29 : 145.76	97.2 55.29 : 145.76
PFDS (Raw)	TM440	104.31 52.94 : 139.56	96.81 52.94 : 139.56
PFecHS (Raw)	TM440	93.5 50.75 : 133.80	103.82 50.75 : 133.80
PFEESA (Raw)	TM440	106.98 50.87 : 134.12	109.52 50.87 : 134.12
PFHpA (Raw)	TM440	105.66 52.61 : 138.69	106.84 52.61 : 138.69
PFHpS (Raw)	TM440	125.37 55.29 : 145.76	104.91 55.29 : 145.76
PFHxA (Raw)	TM440	112.49 54.05 : 142.50	108.14 54.05 : 142.50
PFHxDA (Raw)	TM440	109.79 52.03 : 137.17	107.45 52.03 : 137.17
PFHxS (Raw)	TM440	99.28 53.56 : 141.19	104.69 53.56 : 141.19
PFMOBA (Raw)	TM440	104.84 52.73 : 139.02	112.32 52.73 : 139.02
PFMOPra (Raw)	TM440	111.26 52.57 : 138.58	123.67 52.57 : 138.58
PFNA (Raw)	TM440	111.85 52.94 : 139.56	105.29 52.94 : 139.56
PFNS (Raw)	TM440	103.8 54.38 : 143.37	101.87 54.38 : 143.37
PFOA (Raw)	TM440	115.6 53.80 : 141.85	106.29 53.80 : 141.85
PFODA (Raw)	TM440	92.47 56.03 : 147.72	96.28 56.03 : 147.72
PFOSA (Raw)	TM440	100.25 53.10 : 140.00	97.74 53.10 : 140.00
PFPA (Raw)	TM440	108.21 53.89 : 142.06	110.88 53.89 : 142.06
PFPeS (Raw)	TM440	95.55 54.30 : 143.15	109.85 54.30 : 143.15
PFTeA (Raw)	TM440	100.28 53.06 : 139.89	109.9 53.06 : 139.89
PFTrDA (Raw)	TM440	97.26 51.70 : 136.30	109.39 51.70 : 136.30
PFTrDS (Raw)	TM440	111.15 56.24 : 148.26	96.37 56.24 : 148.26
PFUnA (Raw)	TM440	99.72 53.35 : 140.65	109.06 53.35 : 140.65
PFUnDS (Raw)	TM440	110.84 53.60 : 141.30	90.52 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

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Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3237	QC 3264
11CI-PF3OUdS (763051-92-9)	TM434	116.2 62.16 : 138.51	121.57 62.16 : 138.51
3:3 FTCA (356-02-5)	TM434	119.4 89.89 : 130.69	106.29 89.89 : 130.69
4:2 FTS (757124-72-4)	TM434	101.82 66.54 : 140.56	113.75 66.54 : 140.56
5:3 FTCA (914637-49-3)	TM434	119.65 60.34 : 133.39	95.71 60.34 : 133.39
6:2 FTAB (34455-29-3)	TM434	90.08 59.12 : 129.56	105.86 59.12 : 129.56
6:2 FTS (27619-97-2)	TM434	89.12 67.48 : 129.58	109.03 67.48 : 129.58
7:3 FTCA (812-70-4)	TM434	122.15 79.83 : 133.08	119.57 79.83 : 133.08
8:2 FTS (39108-34-4)	TM434	113.09 81.70 : 132.18	106.8 81.70 : 132.18
9CI-PF3ONS (756426-58-1)	TM434	119.66 71.98 : 136.03	119.39 71.98 : 136.03
ADONA (919005-14-4)	TM434	107.37 70.14 : 142.14	112.65 70.14 : 142.14
EtFOSAA (2991-50-6)	TM434	114.74 67.04 : 131.16	121.22 67.04 : 131.16
EtFOSE (1691-99-2)	TM434	961.76 67.92 : 135.38	967.67 52.90 : 139.47
FBSA (30334-69-1)	TM434	118.15 58.08 : 137.20	121.59 58.08 : 137.20
FHxSA (41997-13-1)	TM434	124.2 71.81 : 148.16	121.66 71.81 : 148.16
HFPO-DA (13252-13-6)	TM434	103.21 57.03 : 123.70	105.87 57.03 : 123.70
HFPO-TA (13252-14-7)	TM434	95.38 58.05 : 153.05	107.54 58.05 : 153.05
Linear PFOS (1763-23-1)	TM434	119.09 69.95 : 145.18	122.72 69.95 : 145.18
MeFOSAA (2355-31-9)	TM434	109.14 68.44 : 128.29	106.43 68.44 : 128.29
MeFOSE (24448-09-7)	TM434	92.53 70.83 : 132.00	96.92 70.83 : 132.00
N-EtFOSA (4151-50-2)	TM434	106.69 59.26 : 122.86	110.96 59.26 : 122.86
NFDHA (151772-58-6)	TM434	114.28 59.99 : 133.56	111.97 59.99 : 133.56
N-MeFOSA (31506-32-8)	TM434	106.41 62.71 : 118.96	92.12 62.71 : 118.96
PFBA (375-22-4)	TM434	106.09 67.84 : 130.39	110.99 67.84 : 130.39
PFBS (375-73-5)	TM434	118.7 90.25 : 126.25	124.81 90.25 : 126.25
PFDA (335-76-2)	TM434	107.51 68.94 : 132.99	110.64 68.94 : 132.99
PFDaA (307-55-1)	TM434	116.21 66.19 : 135.04	116.74 66.19 : 135.04
PFDoS (79780-39-5)	TM434	117.93 65.90 : 146.45	121.49 65.90 : 146.45



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Superseded Report:

PFAS Liquids (Full Suite)

		QC 3237	QC 3264
PFDS (335-77-3)	TM434	117.2 64.84 : 138.49	118.09 64.84 : 138.49
PFecHS (646-83-3)	TM434	108.34 81.53 : 139.35	120.77 81.53 : 139.35
PFEESA (113507-82-7)	TM434	116.92 67.24 : 129.19	99.37 67.24 : 129.19
PFHpA (375-85-9)	TM434	120.87 72.89 : 141.36	124.9 72.89 : 141.36
PFHpS (375-92-8)	TM434	119.28 72.19 : 155.36	121.19 72.19 : 155.36
PFHxA (307-24-4)	TM434	110.54 71.79 : 135.84	112.44 71.79 : 135.84
PFHxDA (67905-19-5)	TM434	120.07 89.96 : 128.14	126.82 89.96 : 128.14
PFHxS (355-46-4)	TM434	116.33 84.41 : 134.44	123.65 84.41 : 134.44
PFMOBA (863090-89-5)	TM434	122.0 84.99 : 139.74	123.28 84.99 : 139.74
PFMOPra (377-73-1)	TM434	115.52 80.40 : 136.73	120.58 80.40 : 136.73
PFNA (375-95-1)	TM434	100.45 68.61 : 128.99	111.95 68.61 : 128.99
PFNS (68259-12-1)	TM434	124.75 70.70 : 130.93	114.87 70.70 : 130.93
PFOA (335-67-1)	TM434	121.78 74.09 : 143.61	122.5 74.09 : 143.61
PFODA (16517-11-6)	TM434	12.75 68.70 : 175.88	11.97 67.60 : 178.22
PFOSA (754-91-6)	TM434	102.61 67.59 : 130.51	109.95 67.59 : 130.51
PFPA (2706-90-3)	TM434	120.51 74.20 : 140.58	122.21 74.20 : 140.58
PFPeS (2706-91-4)	TM434	104.63 76.19 : 137.91	119.52 76.19 : 137.91
PFTeA (376-06-7)	TM434	123.47 66.36 : 144.96	124.31 66.36 : 144.96
PFTTrDA (72629-94-8)	TM434	116.77 71.98 : 130.25	122.71 71.98 : 130.25
PFTTrDS (791563-89-8)	TM434	123.41 68.38 : 157.48	128.63 68.38 : 157.48
PFUnA (2058-94-8)	TM434	115.41 65.55 : 141.45	107.23 65.55 : 141.45
PFUnDS (749786-16-1)	TM434	101.26 85.84 : 139.76	108.21 85.84 : 139.76

pH

Component	Method Code	QC 3203	QC 3205	QC 3226	QC 3228	QC 3230	QC 3208
pH	TM133	98.6 95.29 : 105.24	99.23 95.29 : 105.24	100.79 94.00 : 105.06	102.38 94.00 : 105.06	102.5 94.00 : 105.06	104.66 95.29 : 105.24



CERTIFICATE OF ANALYSIS

Validated

SDG: 251115-42
Client Ref.: UK-70100310

Report Number: 784798
Location: Thornton Phase 3

Superseded Report:

pH

Component	Method Code	QC 3210	QC 3212
pH	TM133	103.57 95.29 : 105.24	102.85 95.29 : 105.24

Total Organic Carbon

Component	Method Code	QC 3282	QC 3243	QC 3265	QC 3269	QC 3281	QC 3284
Total Organic Carbon	TM132	96.3 93.61 : 106.00	96.96 93.61 : 106.00	95.2 93.61 : 106.00	95.41 93.61 : 106.00	96.91 93.61 : 106.00	95.05 93.61 : 106.00

Component	Method Code	QC 3210
Total Organic Carbon	TM132	96.89 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251115-42
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Location: Thornton Phase 3

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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	11 December 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251119-14
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	785595
Order Number:	UK-70100310

We received 33 samples on Tuesday November 18, 2025 and 33 of these samples were scheduled for analysis which was completed on Thursday December 11, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32475431	GR03-SP302-A	ES	0.10 - 0.20	14/11/2025
32475433	GR03-SP302-A	ES	0.20 - 0.30	14/11/2025
32475435	GR03-SP302-A	ES	0.50 - 0.60	14/11/2025
32475498	GR04-SP423-A	ES	0.00 - 0.10	14/11/2025
32475460	GR04-SP423-A	ES	0.30 - 0.40	14/11/2025
32475464	GR04-SP423-A	ES	0.40 - 0.50	14/11/2025
32475467	GR04-SP425-A	ES	0.00 - 0.10	14/11/2025
32475470	GR04-SP425-A	WT	0.00 - 0.10	14/11/2025
32475474	GR04-SP425-A	ES	0.20 - 0.30	14/11/2025
32475477	GR04-SP425-A	ES	0.40 - 0.50	14/11/2025
32475437	GR03-SP302-B	ES	0.00 - 0.10	14/11/2025
32475451	GR03-SP302-B	WS	0.00 - 0.50	14/11/2025
32475439	GR03-SP302-B	ES	0.20 - 0.30	14/11/2025
32475441	GR03-SP302-B	ES	0.40 - 0.50	14/11/2025
32475480	GR04-SP425-B	ES	0.10 - 0.20	14/11/2025
32475485	GR04-SP425-B	ES	0.30 - 0.40	14/11/2025
32475489	GR04-SP425-B	ES	0.50 - 0.60	14/11/2025
32475443	GR03-SP302-C	ES	0.10 - 0.20	14/11/2025
32475445	GR03-SP302-C	ES	0.30 - 0.40	14/11/2025
32475482	GR03-SP302-C	ESALS	0.50 - 0.60	14/11/2025
32475501	GR04-SP425-C	ESALS	0.00 - 0.10	14/11/2025
32475493	GR04-SP425-C	ES	0.30 - 0.40	14/11/2025
32475496	GR04-SP425-C	ES	0.40 - 0.50	14/11/2025
32475447	GR03-SP302-D	ES	0.00 - 0.10	14/11/2025
32475449	GR03-SP302-D	ES	0.30 - 0.40	14/11/2025
32475454	GR03-SP302-D	ES	0.40 - 0.50	14/11/2025
32475456	GR03-SP302-E-S1	ES	0.10 - 0.20	14/11/2025
32475428	GR03-SP302-E-S1	WT	0.10 - 0.20	14/11/2025
32475510	GR03-SP302-E-S1	ESA1	0.20 - 0.30	14/11/2025
32475505	GR03-SP302-E-S1	ESA2	0.20 - 0.30	14/11/2025
32475458	GR03-SP302-E-S1	ES	0.50 - 0.60	14/11/2025
32475508	GR03-SP302-E-S2	ESA2	0.20 - 0.30	14/11/2025
32475514	GR03-SP302-E-S2	ESA1	0.20 - 0.30	14/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32475445	GR03-SP302-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475443	GR03-SP302-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32475489	GR04-SP425-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32475485	GR04-SP425-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475480	GR04-SP425-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32475441	GR03-SP302-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32475439	GR03-SP302-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32475451	GR03-SP302-B	WS	0.00 - 0.50	50ml digtube (ALE001)	PW						
	32475437	GR03-SP302-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32475477	GR04-SP425-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32475474	GR04-SP425-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32475470	GR04-SP425-A	WT	0.00 - 0.10	50ml digtube (ALE001)	PW						
	32475467	GR04-SP425-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32475464	GR04-SP423-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32475460	GR04-SP423-A	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475498	GR04-SP423-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32475435	GR03-SP302-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
pH	32475433	GR03-SP302-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32475431	GR03-SP302-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
Sample description												
Total Organic Carbon												

32475514	GR03-SP302-E-S2	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		
32475508	GR03-SP302-E-S2	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475458	GR03-SP302-E-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475505	GR03-SP302-E-S1	ESA2	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475510	GR03-SP302-E-S1	ESA1	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475428	GR03-SP302-E-S1	WT	0.10 - 0.20	50ml digitube (ALE001)	PW		X					
32475456	GR03-SP302-E-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475454	GR03-SP302-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475449	GR03-SP302-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475447	GR03-SP302-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X			X
32475496	GR04-SP425-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475493	GR04-SP425-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475501	GR04-SP425-C	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X	X	X
32475482	GR03-SP302-C	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X			X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Sample Descriptions

Grain Sizes

very fine <0.063mm fine 0.063mm - 0.1mm medium 0.1mm - 2mm coarse 2mm - 10mm very coarse >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32475431	GR03-SP302-A	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32475433	GR03-SP302-A	0.20 - 0.30	Light Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32475435	GR03-SP302-A	0.50 - 0.60	Light Brown	Sandy Clay	Vegetation	None
32475460	GR04-SP423-A	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475464	GR04-SP423-A	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475498	GR04-SP423-A	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475467	GR04-SP425-A	0.00 - 0.10	Dark Brown	Sandy Loam	Vegetation	None
32475474	GR04-SP425-A	0.20 - 0.30	Dark Brown	Silt Loam	Brick	Stones
32475477	GR04-SP425-A	0.40 - 0.50	Light Brown	Silty Clay	Vegetation	None
32475437	GR03-SP302-B	0.00 - 0.10	Black	Sandy Loam	Vegetation	Stones
32475439	GR03-SP302-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32475441	GR03-SP302-B	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	None
32475480	GR04-SP425-B	0.10 - 0.20	Grey	Sandy Clay Loam	Vegetation	Stones
32475485	GR04-SP425-B	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32475489	GR04-SP425-B	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Vegetation	None
32475443	GR03-SP302-C	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32475445	GR03-SP302-C	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32475482	GR03-SP302-C	0.50 - 0.60	Light Brown	Silt Loam	Vegetation	None
32475493	GR04-SP425-C	0.30 - 0.40	Dark Brown	Clay	Stones	Vegetation
32475496	GR04-SP425-C	0.40 - 0.50	Grey	Sandy Clay	Vegetation	Stones
32475501	GR04-SP425-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475447	GR03-SP302-D	0.00 - 0.10	Dark Brown	Silty Clay Loam	Brick	Stones
32475449	GR03-SP302-D	0.30 - 0.40	Light Brown	Silt Loam	Vegetation	None
32475454	GR03-SP302-D	0.40 - 0.50	Light Brown	Silt Loam	Vegetation	None
32475456	GR03-SP302-E-S1	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	None
32475458	GR03-SP302-E-S1	0.50 - 0.60	Light Brown	Silty Clay	Vegetation	None
32475505	GR03-SP302-E-S1	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475510	GR03-SP302-E-S1	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	Stones
32475508	GR03-SP302-E-S2	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32475514	GR03-SP302-E-S2	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP302-A	GR03-SP302-A	GR03-SP302-A	GR04-SP423-A	GR04-SP423-A	GR04-SP423-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.					32475431	32475433	32475435	32475498	32475460	32475464
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			25	20	17	29	20	27
Soil Organic Matter (SOM)	<0.35 %	TM132			3.57	1.88	1.38	4.31	3.29	2.9
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.26	8.26	7.91	8.14	7.95	8.19
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	1.48	1.03	0.768
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			9.16	2.57	4.85	2.52	2.77	5.21
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	2.02	1.38	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR03-SP302-B	GR03-SP302-B
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6.2 FTAB (see appendix)									
1-4**\$@ Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR03-SP302-B	GR03-SP302-B
PFBA (375-22-4)	<0.002 µg/l	TM434	0.00 - 0.10	Soil/Solid (S)	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
PFMOPra (377-73-1)	<0.001 µg/l	TM434	Sample Type	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Date Sampled	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
PFPA (2706-90-3)	<0.001 µg/l	TM434	Sample Time						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	Date Received	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	SDG Ref	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
NFDHA (151772-58-6)	<0.003 µg/l	TM434	Lab Sample No.(s)	32475467	32475470	32475474	32475477	32475437	32475451
PFBS (375-73-5)	<0.001 µg/l	TM434	AGS Reference	ES	WT	ES	ES	ES	WS
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065				<0.00065
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				<0.001
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				<0.001
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				<0.001
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				<0.002
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				<0.005
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				<0.002
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				<0.002
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				<0.005
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				<0.00065
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				<0.00065
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				<0.002
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				<0.002
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				<0.001
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				<0.001
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				<0.001



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR03-SP302-B	GR03-SP302-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.					32475467	32475470	32475474	32475477	32475437	32475451
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002				<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002				<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434				<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				<0.01
Total PFOS	<0.00065 µg/l	TM434				<0.00065				<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434				<0.09				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			30		25	25	23	
Soil Organic Matter (SOM)	<0.35 %	TM132			8.53		7.95	1.9	6.52	
pH	1 pH Units	TM133			6.79		7.32	7.6	8.27	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	0.976	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR03-SP302-B	GR03-SP302-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1-4* @ Sample deviation (see appendix)	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.					32475467	32475470	32475474	32475477	32475437	32475451
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	WT	ES	ES	ES	WS
*** 6:2 FTAB (see appendix)										
Component			LOD/Units	Method						
PFHpA (375-85-9)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFPeS (2706-91-4)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
ADONA (919005-14-4)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)			<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	
PFOA (335-67-1)			<0.5 µg/kg	TM440	2.29		3.39	3.26	3.77	
PFHxS (355-46-4)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
FBSA (30334-69-1)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***			<10 µg/kg	TM440	<10		<10	<10	<10	
PFNA (375-95-1)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFecHS (133201-07-7)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFHpS (375-92-8)			<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)			<0.9 µg/kg	TM440	<0.9		<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)			<4.4 µg/kg	TM440	<4.4		<4.4	<4.4	<4.4	
PFDA (335-76-2)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
Branched PFOS			<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)			<0.6 µg/kg	TM440	1.63		1.86	<0.6	0.973	
7:3 FTCA (812-70-4)			<2.5 µg/kg	TM440	<2.5		<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)			<1.4 µg/kg	TM440	<1.4		<1.4	<1.4	<1.4	
PFUnA (2058-94-8)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)			<0.8 µg/kg	TM440	<0.8		<0.8	<0.8	<0.8	
FHxSA (41997-13-1)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFNS (68259-12-1)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFDoA (307-55-1)			<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	
PFDS (335-77-3)			<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)			<0.6 µg/kg	TM440	<0.6		<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)			<0.7 µg/kg	TM440	<0.7		<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFTeA (376-06-7)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFOSA (754-91-6)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	
PFDoS (79780-39-5)			<0.5 µg/kg	TM440	<0.5		<0.5	<0.5	<0.5	

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

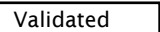
Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP302-B	GR03-SP302-B	GR04-SP425-B	GR04-SP425-B	GR04-SP425-B	GR03-SP302-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
Subcontracted - refer to subcontractor report for accreditation status.					32475439	32475441	32475480	32475485	32475489	32475443
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			20	19	36	29	25	27
Soil Organic Matter (SOM)	<0.35 %	TM132			3.52	1.81	8.34	11	2.57	4.79
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.53	8.33	7.36	7.34	7.57	8.18
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			2.27	2.57	3.83	3.36	2.75	2.3
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	1.96	1.9	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



SDG: 251119-14
Client Ref.: UK-70100310

Superseded Report:

Location: Thornton Phase 3

16:16:56 11/12/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP302-C	GR03-SP302-C	GR04-SP425-C	GR04-SP425-C	GR04-SP425-C	GR03-SP302-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.					32475445	32475482	32475501	32475493	32475496	32475447
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ESALS	ESALS	ES	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			24	26	36	22	19	22
Soil Organic Matter (SOM)	<0.35 %	TM132			1.42	1.38	8.59	5.88	2.84	5.52
pH	1 pH Units	TM133			7.98	8.4	6.19	6.87	6.83	8.28
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			3.4	2.83	1.9	5.7	2.8	1.96
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	1.84	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP302-D	GR03-SP302-D	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.					32475449	32475454	32475456	32475428	32475510	32475505
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002	@	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002	@	
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP302-D	GR03-SP302-D	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.				251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.					32475449	32475454	32475456	32475428	32475510	32475505
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024			21	21	25		19	21
Soil Organic Matter (SOM)	<0.35 %	TM132			0.386	<0.35	4.31		1.03	3.09
pH	1 pH Units	TM133			8.12	8.08	7.3		7.79	7.68
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.808		<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8		<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1		<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Results Legend			Customer Sample Ref.		GR03-SP302-D	GR03-SP302-D	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1
#	ISO17025 accredited.	m	Depth (m)	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.20 - 0.30
m	mCERTS accredited.	aq	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.		Date Sampled	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
diss.filt	Dissolved / filtered sample.		Sample Time	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt	Total / unfiltered sample.		Date Received	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
* Subcontracted - refer to subcontractor report for accreditation status.			SDG Ref	32475449	32475454	32475456	32475428	32475510	32475505	32475505
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			Lab Sample No.(s)	ES	ES	ES	WT	ESA1	ESA2	ESA2
*** 6:2 FTAB (see appendix)			AGS Reference							
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		0.818	1.34	10.1		4.31	10.6	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10		<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9		<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4		<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	1.07		<0.5	0.866	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5		<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4		<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8		<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6		<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7		<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5		<0.5	<0.5	

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Superseded Report:

[illegible]



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SDG: 251119-14
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Report Number: 785595
Location: Thornton Phase 3

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Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP302-E-S1 0.50 - 0.60 Soil/Solid (S) 14/11/2025 18/11/2025 251119-14 32475458 ES	GR03-SP302-E-S2 0.20 - 0.30 Soil/Solid (S) 14/11/2025 18/11/2025 251119-14 32475508 ESA2	GR03-SP302-E-S2 0.20 - 0.30 Soil/Solid (S) 14/11/2025 18/11/2025 251119-14 32475514 ESA1			
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	14	21	18				
Soil Organic Matter (SOM)	<0.35 %	TM132	0.729	2.69	1.53				
			#	#	#				
pH	1 pH Units	TM133	8.11	7.5	7.72				
			M	M	M				
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.32	8.81	8.26				
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	0.636	0.666				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	0.816	0.624				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5				
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5				

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Superseded Report:

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SDG: 251119-14 Report Number: 785595 Superseded Report:
Client Ref.: UK-70100310 Location: Thornton Phase 3

Notification of NDPs (No determination possible)

Date Received : 19/11/2025 05:55:20

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
32475451	GR03-SP302-B WS	0.00 - 0.50	PFAS Liquids (Full Suite)	Insufficient Sample



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Superseded Report:

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32475431	32475433	32475435	32475460	32475464	32475498	32475467	32475470	32475474	32475477
	GR03-SP302-A	GR03-SP302-A	GR03-SP302-A	GR04-SP423-A	GR04-SP423-A	GR04-SP423-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A
	ES	ES	ES	ES	ES	ES	ES	WT	ES	ES
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	11-Dec-2025	11-Dec-2025	08-Dec-2025	11-Dec-2025	09-Dec-2025	11-Dec-2025	11-Dec-2025		08-Dec-2025	08-Dec-2025
PFAS Liquids (Full Suite)								03-Dec-2025		
pH	21-Nov-2025	21-Nov-2025	21-Nov-2025	25-Nov-2025	21-Nov-2025	21-Nov-2025	25-Nov-2025		21-Nov-2025	21-Nov-2025
Sample description	20-Nov-2025	20-Nov-2025	19-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025		20-Nov-2025	20-Nov-2025
Total Organic Carbon	27-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	27-Nov-2025	27-Nov-2025	26-Nov-2025		26-Nov-2025	28-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32475437	32475439	32475441	32475451	32475480	32475485	32475489	32475443	32475445	32475482
	GR03-SP302-B	GR03-SP302-B	GR03-SP302-B	GR03-SP302-B	GR04-SP425-B	GR04-SP425-B	GR04-SP425-B	GR03-SP302-C	GR03-SP302-C	GR03-SP302-C
	ES	ES	ES	WS	ES	ES	ES	ES	ES	ESALS
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	08-Dec-2025	11-Dec-2025	11-Dec-2025		08-Dec-2025	08-Dec-2025	11-Dec-2025	11-Dec-2025	11-Dec-2025	08-Dec-2025
PFAS Liquids (Full Suite)				05-Dec-2025						
pH	21-Nov-2025	21-Nov-2025	21-Nov-2025		21-Nov-2025	25-Nov-2025	25-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description	19-Nov-2025	19-Nov-2025	19-Nov-2025		20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025
Total Organic Carbon	27-Nov-2025	26-Nov-2025	26-Nov-2025		27-Nov-2025	28-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32475493	32475496	32475501	32475447	32475449	32475454	32475428	32475456	32475458	32475505
	GR04-SP425-C	GR04-SP425-C	GR04-SP425-C	GR03-SP302-D	GR03-SP302-D	GR03-SP302-D	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1	GR03-SP302-E-S1
	ES	ES	ESALS	ES	ES	ES	WT	ES	ES	ESA2
	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.50 - 0.60	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	11-Dec-2025	09-Dec-2025	11-Dec-2025	11-Dec-2025	11-Dec-2025	08-Dec-2025		11-Dec-2025	11-Dec-2025	09-Dec-2025
PFAS Liquids (Full Suite)							03-Dec-2025			
pH	21-Nov-2025	21-Nov-2025	25-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025		19-Nov-2025	19-Nov-2025	19-Nov-2025
Total Organic Carbon	26-Nov-2025	26-Nov-2025	27-Nov-2025	26-Nov-2025	27-Nov-2025	27-Nov-2025		26-Nov-2025	28-Nov-2025	26-Nov-2025
Lab Sample No(s) Customer Sample Ref.	32475510	32475508	32475514							
	GR03-SP302-E-S1	GR03-SP302-E-S2	GR03-SP302-E-S2							
	ESA1	ESA2	ESA1							
	0.20 - 0.30	0.20 - 0.30	0.20 - 0.30							
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)							
PFAS in soils	11-Dec-2025	11-Dec-2025	11-Dec-2025							
pH	21-Nov-2025	21-Nov-2025	21-Nov-2025							
Sample description	19-Nov-2025	19-Nov-2025	19-Nov-2025							
Total Organic Carbon	26-Nov-2025	26-Nov-2025	26-Nov-2025							



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3235	QC 3239	QC 3278	QC 3258
10:2 FTS (Raw)	TM440	121.31 53.10 : 140.00	112.01 53.10 : 140.00	106.29 53.10 : 140.00	101.77 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	112.08 53.56 : 141.19	108.22 53.56 : 141.19	92.55 53.56 : 141.19	89.04 53.56 : 141.19
3:3 FTCA (Raw)	TM440	109.84 50.54 : 133.25	114.55 50.54 : 133.25	101.74 50.54 : 133.25	97.79 50.54 : 133.25
4:2 FTS (Raw)	TM440	108.9 56.34 : 145.91	120.36 56.34 : 145.91	99.95 56.34 : 145.91	87.96 56.34 : 145.91
5:3 FTCA (Raw)	TM440	95.65 52.66 : 130.08	108.44 52.66 : 130.08	103.34 52.66 : 130.08	92.84 52.66 : 130.08
6:2 FTAB (Raw)	TM440	43.46 38.50 : 101.50	42.73 38.50 : 101.50	35.54 38.50 : 101.50	36.88 38.50 : 101.50
6:2 FTS (Raw)	TM440	126.17 54.79 : 144.46	97.9 54.79 : 144.46	88.76 54.79 : 144.46	89.52 54.79 : 144.46
7:3 FTCA (Raw)	TM440	107.97 48.60 : 128.14	107.88 48.60 : 128.14	93.61 48.60 : 128.14	101.83 48.60 : 128.14
8:2 diPAP (Raw)	TM440	98.46 56.03 : 147.72	108.61 56.03 : 147.72	98.64 56.03 : 147.72	86.86 56.03 : 147.72
8:2 FTS (Raw)	TM440	116.79 55.74 : 146.96	111.46 55.74 : 146.96	105.76 55.74 : 146.96	83.46 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	104.32 54.59 : 143.91	106.54 54.59 : 143.91	88.63 54.59 : 143.91	87.37 54.59 : 143.91
ADONA (Raw)	TM440	109.06 54.01 : 132.33	111.83 54.01 : 132.33	97.34 54.01 : 132.33	93.71 54.01 : 132.33
Branched PFOS (Raw)	TM440	97.52 54.09 : 142.61	114.36 54.09 : 142.61	96.72 54.09 : 142.61	85.18 54.09 : 142.61
EtFOSAA (Raw)	TM440	102.14 52.48 : 138.36	119.24 52.48 : 138.36	101.98 52.48 : 138.36	87.02 52.48 : 138.36
EtFOSE (Raw)	TM440	106.48 57.05 : 145.29	71.85 57.05 : 145.29	101.32 57.05 : 145.29	187.54 57.05 : 145.29
FBSA (Raw)	TM440	105.77 49.51 : 125.13	93.95 49.51 : 125.13	93.93 49.51 : 125.13	94.64 49.51 : 125.13
FHxSA (Raw)	TM440	108.78 50.38 : 132.82	96.86 50.38 : 132.82	90.57 50.38 : 132.82	94.25 50.38 : 132.82
HFPO-DA (Raw)	TM440	120.61 53.47 : 140.98	117.65 53.47 : 140.98	94.87 53.47 : 140.98	97.99 53.47 : 140.98
HFPO-TA (Raw)	TM440	257.79 44.84 : 118.21	245.87 44.84 : 118.21	199.43 44.84 : 118.21	228.55 44.84 : 118.21
L-PFOS (Raw)	TM440	97.52 54.09 : 142.61	114.36 54.09 : 142.61	96.72 54.09 : 142.61	85.18 54.09 : 142.61
MeFOSAA (Raw)	TM440	107.21 53.02 : 139.78	114.09 53.02 : 139.78	93.92 53.02 : 139.78	93.24 53.02 : 139.78
MeFOSE (Raw)	TM440	103.87 54.99 : 144.97	105.05 54.99 : 144.97	91.59 54.99 : 144.97	91.95 54.99 : 144.97
N-EtFOSA (Raw)	TM440	102.94 59.56 : 132.93	113.05 59.56 : 132.93	97.75 59.56 : 132.93	80.51 59.56 : 132.93
NFDHA (Raw)	TM440	103.47 57.35 : 151.20	109.75 57.35 : 151.20	94.64 57.35 : 151.20	92.76 57.35 : 151.20
N-MeFOSA (Raw)	TM440	112.11 59.19 : 133.01	114.96 59.19 : 133.01	107.87 59.19 : 133.01	90.13 59.19 : 133.01
PFBA (Raw)	TM440	109.42 52.69 : 138.91	99.26 52.69 : 138.91	89.76 52.69 : 138.91	98.53 52.69 : 138.91



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PFAS in soils

		QC 3235	QC 3239	QC 3278	QC 3258
PFBS (Raw)	TM440	106.11 53.31 : 140.54	104.51 53.31 : 140.54	89.87 53.31 : 140.54	90.26 53.31 : 140.54
PFDA (Raw)	TM440	109.95 53.39 : 140.76	104.39 53.39 : 140.76	91.98 53.39 : 140.76	103.19 53.39 : 140.76
PFDoA (Raw)	TM440	106.54 52.85 : 139.34	108.98 52.85 : 139.34	101.76 52.85 : 139.34	107.98 52.85 : 139.34
PFDoS (Raw)	TM440	107.4 55.29 : 145.76	109.95 55.29 : 145.76	95.59 55.29 : 145.76	92.62 55.29 : 145.76
PFDS (Raw)	TM440	105.04 52.94 : 139.56	103.42 52.94 : 139.56	90.85 52.94 : 139.56	98.41 52.94 : 139.56
PFecHS (Raw)	TM440	109.98 50.75 : 133.80	104.55 50.75 : 133.80	95.05 50.75 : 133.80	82.68 50.75 : 133.80
PFEESA (Raw)	TM440	108.74 50.87 : 134.12	110.12 50.87 : 134.12	96.62 50.87 : 134.12	93.78 50.87 : 134.12
PFHpA (Raw)	TM440	114.76 52.61 : 138.69	108.19 52.61 : 138.69	91.9 52.61 : 138.69	96.52 52.61 : 138.69
PFHpS (Raw)	TM440	110.39 55.29 : 145.76	120.83 55.29 : 145.76	96.5 55.29 : 145.76	94.71 55.29 : 145.76
PFHxA (Raw)	TM440	110.49 54.05 : 142.50	97.87 54.05 : 142.50	94.87 54.05 : 142.50	100.13 54.05 : 142.50
PFHxDA (Raw)	TM440	106.77 52.03 : 137.17	105.25 52.03 : 137.17	90.48 52.03 : 137.17	91.12 52.03 : 137.17
PFHxS (Raw)	TM440	109.62 53.56 : 141.19	107.85 53.56 : 141.19	96.37 53.56 : 141.19	85.37 53.56 : 141.19
PFMOBA (Raw)	TM440	104.71 52.73 : 139.02	101.26 52.73 : 139.02	88.25 52.73 : 139.02	92.04 52.73 : 139.02
PFMOPra (Raw)	TM440	121.1 52.57 : 138.58	116.25 52.57 : 138.58	112.47 52.57 : 138.58	109.74 52.57 : 138.58
PFNA (Raw)	TM440	114.78 52.94 : 139.56	102.99 52.94 : 139.56	91.56 52.94 : 139.56	100.12 52.94 : 139.56
PFNS (Raw)	TM440	98.51 54.38 : 143.37	102.85 54.38 : 143.37	91.3 54.38 : 143.37	93.52 54.38 : 143.37
PFOA (Raw)	TM440	111.73 53.80 : 141.85	104.48 53.80 : 141.85	91.04 53.80 : 141.85	97.82 53.80 : 141.85
PFODA (Raw)	TM440	102.13 56.03 : 147.72	98.65 56.03 : 147.72	88.43 56.03 : 147.72	89.65 56.03 : 147.72
PFOSA (Raw)	TM440	101.3 53.10 : 140.00	117.01 53.10 : 140.00	93.7 53.10 : 140.00	84.9 53.10 : 140.00
PFPA (Raw)	TM440	118.18 53.89 : 142.06	102.54 53.89 : 142.06	90.67 53.89 : 142.06	100.1 53.89 : 142.06
PFPeS (Raw)	TM440	107.21 54.30 : 143.15	106.6 54.30 : 143.15	95.53 54.30 : 143.15	89.09 54.30 : 143.15
PFTeA (Raw)	TM440	120.58 53.06 : 139.89	117.52 53.06 : 139.89	94.49 53.06 : 139.89	92.63 53.06 : 139.89
PFTrDA (Raw)	TM440	121.72 51.70 : 136.30	116.61 51.70 : 136.30	98.09 51.70 : 136.30	97.75 51.70 : 136.30
PFTrDS (Raw)	TM440	106.11 56.24 : 148.26	105.38 56.24 : 148.26	96.49 56.24 : 148.26	88.13 56.24 : 148.26
PFUnA (Raw)	TM440	110.95 53.35 : 140.65	103.12 53.35 : 140.65	86.48 53.35 : 140.65	100.72 53.35 : 140.65
PFUnDS (Raw)	TM440	110.18 53.60 : 141.30	105.77 53.60 : 141.30	91.1 53.60 : 141.30	83.96 53.60 : 141.30

PFAS Liquids (Full Suite)



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

Component	Method Code	QC 3273	QC 3251
11CI-PF3OUdS (763051-92-9)	TM434	116.97 62.16 : 138.51	107.29 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	104.45 89.89 : 130.69	97.75 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	99.54 66.54 : 140.56	109.82 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	90.32 60.34 : 133.39	102.16 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	99.62 59.12 : 129.56	105.27 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	106.43 67.48 : 129.58	111.61 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	106.88 79.83 : 133.08	102.18 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	91.03 81.70 : 132.18	112.88 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	103.39 71.98 : 136.03	99.35 69.20 : 147.13
ADONA (919005-14-4)	TM434	120.42 70.14 : 142.14	108.72 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	115.69 67.04 : 131.16	116.21 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	915.19 52.90 : 139.47	74.58 67.47 : 136.89
FBSA (30334-69-1)	TM434	115.54 58.08 : 137.20	91.35 63.70 : 143.28
FHxSA (41997-13-1)	TM434	115.05 71.81 : 148.16	101.41 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	105.32 57.03 : 123.70	106.47 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	111.96 58.05 : 153.05	112.76 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	108.37 69.95 : 145.18	100.67 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	109.55 68.44 : 128.29	113.02 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	94.16 70.83 : 132.00	85.65 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	73.22 59.26 : 122.86	61.4 57.83 : 132.08
NFDHA (151772-58-6)	TM434	97.28 59.99 : 133.56	113.0 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	80.24 62.71 : 118.96	59.6 61.69 : 135.49
PFBA (375-22-4)	TM434	101.3 67.84 : 130.39	113.88 74.68 : 133.63
PFBS (375-73-5)	TM434	113.56 90.25 : 126.25	105.02 74.09 : 133.79
PFDA (335-76-2)	TM434	96.98 68.94 : 132.99	105.97 72.39 : 135.76
PFDaA (307-55-1)	TM434	103.13 66.19 : 135.04	107.17 58.06 : 148.21
PFDoS (79780-39-5)	TM434	125.69 65.90 : 146.45	111.55 74.76 : 130.94



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

PFAS Liquids (Full Suite)

		QC 3273	QC 3251
PFDS (335-77-3)	TM434	124.52 64.84 : 138.49	105.99 58.61 : 140.44
PFecHS (646-83-3)	TM434	113.18 81.53 : 139.35	107.44 76.93 : 133.25
PFEESA (113507-82-7)	TM434	114.33 67.24 : 129.19	106.3 62.25 : 138.08
PFHpA (375-85-9)	TM434	113.84 72.89 : 141.36	113.22 75.71 : 136.46
PFHpS (375-92-8)	TM434	114.38 72.19 : 155.36	101.08 76.13 : 132.38
PFHxA (307-24-4)	TM434	101.45 71.79 : 135.84	108.19 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	102.62 89.96 : 128.14	108.15 71.24 : 136.49
PFHxS (355-46-4)	TM434	110.01 84.41 : 134.44	104.91 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	112.35 84.99 : 139.74	109.03 76.41 : 130.26
PFMOPra (377-73-1)	TM434	116.19 80.40 : 136.73	112.64 65.74 : 128.74
PFNA (375-95-1)	TM434	100.71 68.61 : 128.99	110.85 75.01 : 133.06
PFNS (68259-12-1)	TM434	119.79 70.70 : 130.93	98.5 74.74 : 129.26
PFOA (335-67-1)	TM434	115.03 74.09 : 143.61	101.01 74.76 : 136.11
PFODA (16517-11-6)	TM434	11.64 67.60 : 178.22	105.8 53.58 : 141.25
PFOSA (754-91-6)	TM434	99.31 67.59 : 130.51	108.02 76.54 : 135.04
PFPA (2706-90-3)	TM434	116.9 74.20 : 140.58	110.02 77.89 : 134.66
PFPeS (2706-91-4)	TM434	116.9 76.19 : 137.91	110.48 69.49 : 132.71
PFTeA (376-06-7)	TM434	102.28 66.36 : 144.96	109.15 61.66 : 143.71
PFTTrDA (72629-94-8)	TM434	114.71 71.98 : 130.25	120.21 67.04 : 136.04
PFTTrDS (791563-89-8)	TM434	121.45 68.38 : 157.48	112.55 76.88 : 133.35
PFUnA (2058-94-8)	TM434	99.17 65.55 : 141.45	112.67 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	126.8 85.84 : 139.76	103.66 71.45 : 127.25

pH

Component	Method Code	QC 3276	QC 3252	QC 3254	QC 3256
pH	TM133	103.09 95.29 : 105.24	103.44 95.29 : 105.24	103.46 95.29 : 105.24	102.85 95.29 : 105.24



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-14
Client Ref.: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Total Organic Carbon

Component	Method Code	QC 3249	QC 3253	QC 3257	QC 3200	QC 3205	QC 3273
Total Organic Carbon	TM132	97.82 93.61 : 106.00	97.42 93.61 : 106.00	95.26 93.61 : 106.00	98.22 93.61 : 106.00	97.66 93.61 : 106.00	96.65 93.61 : 106.00

Component	Method Code	QC 3275
Total Organic Carbon	TM132	98.17 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

SDG: 251119-14
Client Ref: UK-70100310

Report Number: 785595
Location: Thornton Phase 3

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 11 December 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251119-15
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 785596
Order Number: UK-70100310

This report has been revised and directly supersedes 783952 in its entirety.

We received 57 samples on Wednesday November 19, 2025 and 56 of these samples were scheduled for analysis which was completed on Thursday December 11, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32475666	GR04-SP440-A	ES	0.10 - 0.20	17/11/2025
32475668	GR04-SP440-A	ES	0.20 - 0.30	17/11/2025
32475670	GR04-SP440-A	ES	0.50 - 0.60	17/11/2025
32475617	GR04-SP440-A	WT	0.50 - 0.60	17/11/2025
32475592	GR03-SP320-A-S1	ES	0.10 - 0.20	17/11/2025
32475597	GR03-SP320-A-S1	ES	0.30 - 0.40	17/11/2025
32475576	GR03-SP320-A-S1	ESA2	0.50 - 0.60	17/11/2025
32475584	GR03-SP320-A-S1	ESA1	0.50 - 0.60	17/11/2025
32475586	GR03-SP320-A-S2	ESA1	0.50 - 0.60	17/11/2025
32475578	GR03-SP320-A-S2	ESA2	0.50 - 0.60	17/11/2025
32475634	GR04-SP419-A-S1	ES	0.00 - 0.10	17/11/2025
32475663	GR04-SP419-A-S1	WS	0.00 - 0.50	17/11/2025
32475580	GR04-SP419-A-S1	ESA2	0.30 - 0.40	17/11/2025
32475588	GR04-SP419-A-S1	ESA1	0.30 - 0.40	17/11/2025
32475636	GR04-SP419-A-S1	ES	0.40 - 0.50	17/11/2025
32475590	GR04-SP419-A-S2	ESA1	0.30 - 0.40	17/11/2025
32475582	GR04-SP419-A-S2	ESA2	0.30 - 0.40	17/11/2025
32475599	GR03-SP320-B	ES	0.00 - 0.10	17/11/2025
32475684	GR03-SP320-B	ESALS	0.30 - 0.40	17/11/2025
32475601	GR03-SP320-B	ES	0.40 - 0.50	17/11/2025
32475638	GR04-SP419-B	ES	0.10 - 0.20	17/11/2025
32475643	GR04-SP419-B	ES	0.20 - 0.30	17/11/2025
32475645	GR04-SP419-B	ES	0.50 - 0.60	17/11/2025
32475672	GR04-SP440-B	ES	0.00 - 0.10	17/11/2025
32475574	GR04-SP440-B	ESALS	0.20 - 0.30	17/11/2025
32475674	GR04-SP440-B	ES	0.40 - 0.50	17/11/2025
32475603	GR03-SP320-C	ES	0.10 - 0.20	17/11/2025
32475682	GR03-SP320-C	ESGEOTEXTILE	0.12	17/11/2025
32475605	GR03-SP320-C	ES	0.20 - 0.30	17/11/2025
32475640	GR03-SP320-C	WS	0.20 - 0.30	17/11/2025
32475607	GR03-SP320-C	ES	0.50 - 0.60	17/11/2025
32475647	GR04-SP419-C	ES	0.00 - 0.10	17/11/2025
32475649	GR04-SP419-C	ES	0.20 - 0.30	17/11/2025
32475651	GR04-SP419-C	ES	0.40 - 0.50	17/11/2025
32475676	GR04-SP440-C	ES	0.10 - 0.20	17/11/2025
32475678	GR04-SP440-C	ES	0.30 - 0.40	17/11/2025
32475680	GR04-SP440-C	ES	0.50 - 0.60	17/11/2025
32475609	GR03-SP320-D	ES	0.00 - 0.10	17/11/2025
32475611	GR03-SP320-D	ES	0.20 - 0.30	17/11/2025
32475613	GR03-SP320-D	ES	0.40 - 0.50	17/11/2025
32475653	GR04-SP419-D	ES	0.10 - 0.20	17/11/2025
32475655	GR04-SP419-D	ES	0.30 - 0.40	17/11/2025
32475657	GR04-SP419-D	ES	0.50 - 0.60	17/11/2025
32475686	GR03-SP320-E	ESALS	0.10 - 0.20	17/11/2025
32475615	GR03-SP320-E	ES	0.30 - 0.40	17/11/2025
32475571	GR03-SP320-E	WT	0.30 - 0.40	17/11/2025
32475620	GR03-SP320-E	ES	0.50 - 0.60	17/11/2025
32475659	GR04-SP419-E	ES	0.00 - 0.10	17/11/2025
32475661	GR04-SP419-E	ES	0.30 - 0.40	17/11/2025
32475688	GR04-SP419-E	ESALS	0.40 - 0.50	17/11/2025
32475622	GR03-SP320-F	ES	0.00 - 0.10	17/11/2025
32475624	GR03-SP320-F	ES	0.30 - 0.40	17/11/2025
32475626	GR03-SP320-F	ES	0.40 - 0.50	17/11/2025
32475628	GR03-SP320-G	ES	0.10 - 0.20	17/11/2025
32475630	GR03-SP320-G	ES	0.20 - 0.30	17/11/2025
32475594	GR03-SP320-G	WT	0.20 - 0.30	17/11/2025
32475632	GR03-SP320-G	ES	0.50 - 0.60	17/11/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32475684	GR03-SP320-B	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475599	GR03-SP320-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32475582	GR04-SP419-A-S2	ESAS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475590	GR04-SP419-A-S2	ESAS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475636	GR04-SP419-A-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32475588	GR04-SP419-A-S1	ESAS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475580	GR04-SP419-A-S1	ESAS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475663	GR04-SP419-A-S1	WS	0.00 - 0.50	50ml digitube (ALE001)	PW						
	32475634	GR04-SP419-A-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32475578	GR03-SP320-A-S2	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32475586	GR03-SP320-A-S2	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32475584	GR03-SP320-A-S1	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32475576	GR03-SP320-A-S1	ESAS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32475597	GR03-SP320-A-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32475592	GR03-SP320-A-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32475617	GR04-SP440-A	WT	0.50 - 0.60	50ml digitube (ALE001)	PW						
	32475670	GR04-SP440-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
pH	32475668	GR04-SP440-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32475666	GR04-SP440-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
Sample description												
Total Organic Carbon												

32475653	GR04-SP419-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		
32475613	GR03-SP320-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X			X
32475611	GR03-SP320-D	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X			X
32475609	GR03-SP320-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475680	GR04-SP440-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475678	GR04-SP440-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475676	GR04-SP440-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475651	GR04-SP419-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475649	GR04-SP419-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475647	GR04-SP419-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475607	GR03-SP320-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475640	GR03-SP320-C	WS	0.20 - 0.30	50ml digitube (ALE001)	PW		X					
32475605	GR03-SP320-C	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475603	GR03-SP320-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475674	GR04-SP440-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475574	GR04-SP440-B	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475672	GR04-SP440-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475645	GR04-SP419-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475643	GR04-SP419-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475638	GR04-SP419-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32475601	GR03-SP320-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X

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Results Legend



Test



No Determination Possible

Sample Types -

- S - Soil/Solid
- UNS - Unspecified Solid
- GW - Ground Water
- SW - Surface Water
- LE - Land Leachate
- PL - Prepared Leachate
- PR - Process Water
- SA - Saline Water
- TE - Trade Effluent
- TS - Treated Sewage
- UE - Untreated Sewage
- RE - Recreational Water
- DW - Drinking Water
- Non-regulatory
- UNL - Unspecified Liquid
- SL - Sludge
- G - Gas
- OTH - Other

Lab Sample No(s)		Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
32475652	GR03-SP320-G	E5	0.50 - 0.60	1kg TUB with Handle (ALEZ60)	S	
32475594	GR03-SP320-G	WT	0.20 - 0.30	50ml digitube (ALE001)	PW	
32475650	GR03-SP320-G	ES	0.20 - 0.30	1kg TUB with Handle (ALEZ60)	S	
32475628	GR03-SP320-G	ES	0.10 - 0.20	1kg TUB with Handle (ALEZ60)	S	
32475626	GR03-SP320-F	ES	0.40 - 0.50	1kg TUB with Handle (ALEZ60)	S	
32475624	GR03-SP320-F	ES	0.30 - 0.40	1kg TUB with Handle (ALEZ60)	S	
32475622	GR03-SP320-F	ES	0.00 - 0.10	1kg TUB with Handle (ALEZ60)	S	
32475688	GR04-SP419-E	ESALS	0.40 - 0.50	1kg TUB with Handle (ALEZ60)	S	
32475661	GR04-SP419-E	ES	0.30 - 0.40	1kg TUB with Handle (ALEZ60)	S	
32475659	GR04-SP419-E	ES	0.00 - 0.10	1kg TUB with Handle (ALEZ60)	S	
32475620	GR03-SP320-E	ES	0.50 - 0.60	1kg TUB with Handle (ALEZ60)	S	
32475571	GR03-SP320-E	WT	0.30 - 0.40	50ml digitube (ALE001)	PW	
32475615	GR03-SP320-E	ES	0.30 - 0.40	1kg TUB with Handle (ALEZ60)	S	
32475686	GR03-SP320-E	ESALS	0.10 - 0.20	1kg TUB with Handle (ALEZ60)	S	
32475657	GR04-SP419-D	ES	0.50 - 0.60	1kg TUB with Handle (ALEZ60)	S	
32475655	GR04-SP419-D	ES	0.30 - 0.40	1kg TUB with Handle (ALEZ60)	S	
All	NDPs: 0 Tests: 51	X				
All	NDPs: 1 Tests: 5					
All	NDPs: 0 Tests: 51	X				
All	NDPs: 0 Tests: 47	X				
All	NDPs: 0 Tests: 51	X				



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Sample Descriptions

Grain Sizes

very fine <0.063mm **fine** 0.063mm - 0.1mm **medium** 0.1mm - 2mm **coarse** 2mm - 10mm **very coarse** >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32475666	GR04-SP440-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32475668	GR04-SP440-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	Stones
32475670	GR04-SP440-A	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None
32475576	GR03-SP320-A-S1	0.50 - 0.60	Light Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32475584	GR03-SP320-A-S1	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32475592	GR03-SP320-A-S1	0.10 - 0.20	Light Brown	Silty Clay Loam	Tile/Insulation Board	Stones
32475597	GR03-SP320-A-S1	0.30 - 0.40	Light Brown	Silty Clay Loam	Vegetation	None
32475578	GR03-SP320-A-S2	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32475586	GR03-SP320-A-S2	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32475580	GR04-SP419-A-S1	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32475588	GR04-SP419-A-S1	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Stones	None
32475634	GR04-SP419-A-S1	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32475636	GR04-SP419-A-S1	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Vegetation	None
32475582	GR04-SP419-A-S2	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32475590	GR04-SP419-A-S2	0.30 - 0.40	Dark Brown	Sandy Clay Loam	Vegetation	None
32475599	GR03-SP320-B	0.00 - 0.10	Light Brown	Silty Clay Loam	Stones	Vegetation
32475601	GR03-SP320-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32475684	GR03-SP320-B	0.30 - 0.40	Light Brown	Silty Clay Loam	Vegetation	None
32475638	GR04-SP419-B	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Vegetation	None
32475643	GR04-SP419-B	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475645	GR04-SP419-B	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32475574	GR04-SP440-B	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	Stones
32475672	GR04-SP440-B	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32475674	GR04-SP440-B	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32475603	GR03-SP320-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32475605	GR03-SP320-C	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Vegetation
32475607	GR03-SP320-C	0.50 - 0.60	Light Brown	Silty Clay	Stones	Vegetation
32475647	GR04-SP419-C	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32475649	GR04-SP419-C	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Vegetation	Stones
32475651	GR04-SP419-C	0.40 - 0.50	Light Brown	Sandy Clay Loam	Vegetation	None
32475676	GR04-SP440-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32475678	GR04-SP440-C	0.30 - 0.40	Dark Brown	Silty Clay Loam	Vegetation	None
32475680	GR04-SP440-C	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None
32475609	GR03-SP320-D	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32475611	GR03-SP320-D	0.20 - 0.30	Light Brown	Silty Clay Loam	Stones	Concrete/Aggregate
32475613	GR03-SP320-D	0.40 - 0.50	Light Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32475653	GR04-SP419-D	0.10 - 0.20	Dark Brown	Silt Loam	Vegetation	None
32475655	GR04-SP419-D	0.30 - 0.40	Dark Brown	Silt Loam	Vegetation	Stones
32475657	GR04-SP419-D	0.50 - 0.60	Light Brown	Sandy Clay Loam	Stones	Vegetation



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			Colour	Description	Inclusions	Inclusions 2
32475615	GR03-SP320-E	0.30 - 0.40	Light Brown	Silty Clay Loam	Stones	Vegetation
32475620	GR03-SP320-E	0.50 - 0.60	Light Brown	Silty Clay Loam	Vegetation	None
32475686	GR03-SP320-E	0.10 - 0.20	Dark Brown	Sandy Silt Loam	Vegetation	None
32475659	GR04-SP419-E	0.00 - 0.10	Dark Brown	Sandy Clay Loam	Vegetation	None
32475661	GR04-SP419-E	0.30 - 0.40	Light Brown	Sandy Clay Loam	Vegetation	Stones
32475688	GR04-SP419-E	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32475622	GR03-SP320-F	0.00 - 0.10	Light Brown	Silt Loam	Vegetation	None
32475624	GR03-SP320-F	0.30 - 0.40	Dark Brown	Silt Loam	Vegetation	None
32475626	GR03-SP320-F	0.40 - 0.50	Dark Brown	Silt Loam	Vegetation	None
32475628	GR03-SP320-G	0.10 - 0.20	Dark Brown	Silt Loam	Vegetation	None
32475630	GR03-SP320-G	0.20 - 0.30	Dark Brown	Sandy Silt Loam	Vegetation	None
32475632	GR03-SP320-G	0.50 - 0.60	Light Brown	Silt Loam	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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Results Legend			Customer Sample Ref.	GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR03-SP320-A-S1	GR03-SP320-A-S1
#	ISO17025 accredited.			0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6.2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434				<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434				<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434				<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434				<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434				<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434				<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434				<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434				<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434				<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434				<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434				<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434				<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434				<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434				<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434				<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434				<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434				<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434				<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434				<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434				<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434				<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434				<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434				<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434				<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434				<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434				<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434				<0.00065			
Branched PFOS	<0.00065 µg/l	TM434				<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434				<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434				<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434				<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434				<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434				<0.001			



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Results Legend			Customer Sample Ref.		GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR03-SP320-A-S1	GR03-SP320-A-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475666	32475668	32475670	32475617	32475592	32475597
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434						<0.002		
PFDS (335-77-3)	<0.002 µg/l	TM434						<0.002		
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434						<0.003		
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434						<0.002		
PFUnDS (749786-16-1)	<0.002 µg/l	TM434						<0.002		
PFTeA (376-06-7)	<0.001 µg/l	TM434						<0.001		
PFOSA (754-91-6)	<0.002 µg/l	TM434						<0.002		
PFDoS (79780-39-5)	<0.002 µg/l	TM434						<0.002		
PFHxDA (67905-19-5)	<0.001 µg/l	TM434						<0.001		
MeFOSE (24448-09-7)	<0.01 µg/l	TM434						<0.01		
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434						<0.001		
EtFOSE (1691-99-2)	<0.01 µg/l	TM434						<0.01		
PFODA (16517-11-6)	<0.001 µg/l	TM434						<0.001		
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434						<0.001		
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434						<0.01		
Total PFOS	<0.00065 µg/l	TM434						<0.00065		
Total PFAS DWI 47	<0.09 µg/l	TM434						<0.09		
PFecHS (646-83-3)	<0.001 µg/l	TM434						<0.001		
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434						<0.001		
Moisture Content Ratio (% of as received sample)	%	PM024	31	26	25			21	25	
Soil Organic Matter (SOM)	<0.35 %	TM132	10.9	11.3	1.56			3.71	3.97	
pH	1 pH Units	TM133	7.05	7.19	7.29			6.9	6.84	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			<0.5	<0.5	



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Validated

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Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR03-SP320-A-S1	GR03-SP320-A-S1
# ISO17025 accredited.	m	mCERTS accredited.	Depth (m)	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	
aq Aqueous / settled sample.	Sample Type		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
diss.filt Dissolved / filtered sample.	Date Sampled		17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	
tot.unfiltTotal / unfiltered sample.	Sample Time		19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	
* Subcontracted - refer to subcontractor report for accreditation status.	Date Received		251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	SDG Ref		32475666	32475668	32475670	32475617	32475592	32475597	32475597	
*** 6:2 FTAB (see appendix)	Lab Sample No.(s)		ES	ES	ES	WT	ES	ES	ES	
1-4*§@ Sample deviation (see appendix)	AGS Reference									
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5		<2.5	<2.5		
PFOA (335-67-1)	<0.5 µg/kg	TM440	5.84	6.17	3.1		7.85	12.3		
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10		<10	<10		
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6		
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9		<0.9	<0.9		
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4		<4.4	<4.4		
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6		
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	1.09	<0.6	<0.6		<0.6	<0.6		
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5		<2.5	<2.5		
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440	<1.4	<1.4	<1.4		<1.4	<1.4		
PFUnA (2058-94-8)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8		<0.8	<0.8		
FHxSA (41997-13-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFNS (68259-12-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFDoA (307-55-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6		
PFDS (335-77-3)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6		
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6		<0.6	<0.6		
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440	<0.7	<0.7	<0.7		<0.7	<0.7		
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFTeA (376-06-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFOSA (754-91-6)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		
PFDoS (79780-39-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.	GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S2	GR03-SP320-A-S2	GR04-SP419-A-S1	GR04-SP419-A-S1
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6.2 FTAB (see appendix)									
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
PFBA (375-22-4)	<0.002 µg/l	TM434	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
PFMOPra (377-73-1)	<0.001 µg/l	TM434	Date Sampled	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Sample Time						
PFPA (2706-90-3)	<0.001 µg/l	TM434	Date Received	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	SDG Ref	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	Lab Sample No.(s)	32475576	32475584	32475586	32475578	32475634	32475663
NFDHA (151772-58-6)	<0.003 µg/l	TM434	AGS Reference	ESA2	ESA1	ESA1	ESA2	ES	WS
PFBS (375-73-5)	<0.001 µg/l	TM434							
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434							
PFHxS (355-46-4)	<0.001 µg/l	TM434							
PFNA (375-95-1)	<0.001 µg/l	TM434							
PFHpS (375-92-8)	<0.001 µg/l	TM434							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							
PFDA (335-76-2)	<0.002 µg/l	TM434							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							
Branched PFOS	<0.00065 µg/l	TM434							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							
PFUnA (2058-94-8)	<0.002 µg/l	TM434							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							
PFNS (68259-12-1)	<0.001 µg/l	TM434							
FHxSA (41997-13-1)	<0.001 µg/l	TM434							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S2	GR03-SP320-A-S2	GR04-SP419-A-S1	GR04-SP419-A-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475576	32475584	32475586	32475578	32475634	32475663
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ESA1	ESA1	ESA2	ES	WS
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434								<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024	21	25	22	21	36			
Soil Organic Matter (SOM)	<0.35 %	TM132	2.67	1.35	2.33	2.07	3.78			
pH	1 pH Units	TM133	7.15	7.37	6.77	7.02	6.16			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S2	GR03-SP320-A-S2	GR04-SP419-A-S1	GR04-SP419-A-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.00 - 0.10	0.00 - 0.50
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475576	32475584	32475586	32475578	32475634	32475663
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ESA1	ESA1	ESA2	ES	WS
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440			9.53	6.26	8.41	3.64	9.42	
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	1.28	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	1.26	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S2	GR04-SP419-A-S2	GR03-SP320-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.30 - 0.40	0.40 - 0.50	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
Subcontracted - refer to subcontractor report for accreditation status.					32475580	32475588	32475636	32475590	32475582	32475599
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA2	ESA1	ES	ESA1	ESA2	ES
*** 6.2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			26	20	27	28	29	27
Soil Organic Matter (SOM)	<0.35 %	TM132			1.86	2	3.24	2.69	2.26	5.09
pH	1 pH Units	TM133			7.11	7.14	7	6.87	6.39	6.6
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			8.86	9.31	11.3	8.8	7.52	6.02
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	0.67	0.763	1.22	1.24	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-B	GR03-SP320-B	GR04-SP419-B	GR04-SP419-B	GR04-SP419-B	GR04-SP440-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475684	32475601	32475638	32475643	32475645	32475672
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			24	33	30	25	24	24
Soil Organic Matter (SOM)	<0.35 %	TM132			3.26	3.43	4.65	4.02	4.15	8.5
pH	1 pH Units	TM133			6.75	6.98	6.64	7.39	7.54	6
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	1.02	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.981	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			15.9	12.5	6.04	5.22	9.41	2.35
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	1.18	1.06	1.03	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR04-SP440-B	GR04-SP440-B	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475574	32475674	32475603	32475605	32475640	32475607
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	ES	WS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.001	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002	◆
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065	
Branched PFOS	<0.00065 µg/l	TM434							<0.00065	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002	◆
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR04-SP440-B	GR04-SP440-B	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.20 - 0.30	0.50 - 0.60
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475574	32475674	32475603	32475605	32475640	32475607
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	ES	WS	ES
*** 6:2 FTAB (see appendix)										
1-4**@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434							<0.002	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.002	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.003	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.002	
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.002	
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.001	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.002	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.002	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.001	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.01	
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.001	
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.01	
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.001	
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.001	
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.01	
Total PFOS	<0.00065 µg/l	TM434							<0.00065	
Total PFAS DWI 47	<0.09 µg/l	TM434							<0.09	
PFecHS (646-83-3)	<0.001 µg/l	TM434							<0.001	
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.001	
Moisture Content Ratio (% of as received sample)	%	PM024	28	30	18	26				18
Soil Organic Matter (SOM)	<0.35 %	TM132	4.88	4.14	2.69	2.59				1.51
pH	1 pH Units	TM133	6.13	6.31	7.42	7.6				7.38
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8				<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8				<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1				<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.	GR04-SP440-B	GR04-SP440-B	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 17/11/2025	0.40 - 0.50 Soil/Solid (S) 17/11/2025	0.10 - 0.20 Soil/Solid (S) 17/11/2025	0.20 - 0.30 Soil/Solid (S) 17/11/2025	0.20 - 0.30 Process Water (PR) 17/11/2025	0.50 - 0.60 Soil/Solid (S) 17/11/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
*** 6:2 FTAB (see appendix)				32475574	32475674	32475603	32475605	32475640	32475607
1-4**@ Sample deviation (see appendix)				ESALS	ES	ES	ES	WS	ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		3.3	7.83	8.84	11.7		3.53
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR04-SP419-C	GR04-SP419-C	GR04-SP419-C	GR04-SP440-C	GR04-SP440-C	GR04-SP440-C
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
Subcontracted - refer to subcontractor report for accreditation status.					32475647	32475649	32475651	32475676	32475678	32475680
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			24	22	19	31	29	24
Soil Organic Matter (SOM)	<0.35 %	TM132			4.1	3.19	1.56	7.33	4.65	1.35
					#	#	#	#	#	#
pH	1 pH Units	TM133			6.75	7.2	7.33	6.25	6.52	6.51
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			1.03	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.43	6.41	6.6	2.99	4.5	11.6
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	1.08	0.7	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-D	GR03-SP320-D	GR03-SP320-D	GR04-SP419-D	GR04-SP419-D	GR04-SP419-D
# ISO17025 accredited.			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60
M mCERTS accredited.					Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.					17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt Dissolved / filtered sample.					19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfiltTotal / unfiltered sample.					251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475609	32475611	32475613	32475653	32475655	32475657
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			20	23	24	24	20	19
Soil Organic Matter (SOM)	<0.35 %	TM132			2.81	3.34	3.62	4.02	2.64	1.2
pH	1 pH Units	TM133			6.56	6.61	7.21	7	6.97	6.82
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.758	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.22	6.26	7.17	4.96	3.96	4.5
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	0.995	0.797	0.653
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend		Customer Sample Ref.	GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR04-SP419-E	GR04-SP419-E
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M mCERTS accredited.								
aq Aqueous / settled sample.								
diss.filt Dissolved / filtered sample.								
tot.unfilt Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)								
Component	LOD/Units	Method						
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002			
PFMOPrA (377-73-1)	<0.001 µg/l	TM434			<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065			
Branched PFOS	<0.00065 µg/l	TM434			<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR04-SP419-E	GR04-SP419-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475686	32475615	32475571	32475620	32475659	32475661
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	WT	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	30		30		29	26	18	
Soil Organic Matter (SOM)	<0.35 %	TM132	5.62	#	4.28	#	4.09	3.31	2.26	#
pH	1 pH Units	TM133	7.19	M	7.15	M	7.14	6.17	6.29	M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8		<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8		<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1		<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5		<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR04-SP419-E	GR04-SP419-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
diss.filt	Dissolved / filtered sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
tot.unfilt	Total / unfiltered sample.				251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
* Subcontracted - refer to subcontractor report for accreditation status.					32475686	32475615	32475571	32475620	32475659	32475661
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	WT	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4* @ Sample deviation (see appendix)										
Component	LOD/Units	Method								
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			9.54	10		17.2	7.05	5.21
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFechS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	0.915	0.616
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	<5 µg/kg	TM440			<5	<5		<5	<5	<5
PFHxDA (67905-19-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

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CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.	GR04-SP419-E	GR03-SP320-F	GR03-SP320-F	GR03-SP320-F	GR03-SP320-G	GR03-SP320-G						
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475688 ESALS								0.00 - 0.10 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475622 ES	0.30 - 0.40 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475624 ES	0.40 - 0.50 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475626 ES	0.10 - 0.20 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475628 ES	0.20 - 0.30 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475630 ES	
Component	LOD/Units	Method								21	29	23	27	25	26
Moisture Content Ratio (% of as received sample)	%	PM024													
Soil Organic Matter (SOM)	<0.35 %	TM132								3.83	5.78	3.41	4.05	5.02	5.14
pH	1 pH Units	TM133								6.37	6.55	7.13	7.24	5.26	5.26
PFBA (375-22-4)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440								<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8							
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1							
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							
PFOA (335-67-1)	<0.5 µg/kg	TM440	16.7	8.35	13.4	14.6	6.05	10.2							
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10							
PFNA (375-95-1)	<0.5 µg/kg	TM440	0.682	<0.5	<0.5	<0.5	<0.5	<0.5							
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9							
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4							
PFDA (335-76-2)	<0.5 µg/kg	TM440	1	<0.5	<0.5	<0.5	<0.5	<0.5							
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	0.849	<0.6	<0.6	<0.6	<0.6							
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

Results Legend			Customer Sample Ref.		GR03-SP320-G	GR03-SP320-G			
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6.2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30 Process Water (PR) 17/11/2025 19/11/2025 251119-15 32475594 WT		0.50 - 0.60 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475632 ES				
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPra (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	0.000867						
Branched PFOS	<0.00065 µg/l	TM434	0.00082						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



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Validated

SDG: 251119-15
Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

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Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP320-G 0.20 - 0.30 Process Water (PR) 17/11/2025 19/11/2025 251119-15 32475594 WT	GR03-SP320-G 0.50 - 0.60 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475632 ES				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002					
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01					
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001					
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01					
Total PFOS	<0.00065 µg/l	TM434	0.00169					
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09					
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001					
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024		21				
Soil Organic Matter (SOM)	<0.35 %	TM132		1.18	#			
pH	1 pH Units	TM133		7.08	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440		0.636				
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440		<0.5				
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440		<0.8				
PFPA (2706-90-3)	<0.5 µg/kg	TM440		<0.5				
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440		<0.5				
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440		<0.5				
NFDHA (151772-58-6)	<1.8 µg/kg	TM440		<1.8				
PFHxA (307-24-4)	<0.5 µg/kg	TM440		<0.5				
PFBS (375-73-5)	<0.5 µg/kg	TM440		<0.5				
HFPO-DA (13252-13-6)	<1 µg/kg	TM440		<1				
PFEESA (113507-82-7)	<0.5 µg/kg	TM440		<0.5				



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SDG: 251119-15
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Location: Thornton Phase 3

Superseded Report: 783952

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP320-G 0.20 - 0.30 Process Water (PR) 17/11/2025 19/11/2025 251119-15 32475594 WT	GR03-SP320-G 0.50 - 0.60 Soil/Solid (S) 17/11/2025 19/11/2025 251119-15 32475632 ES				
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted - refer to subcontractor report for accreditation status.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
***	6:2 FTAB (see appendix)							
1-4**	Sample deviation (see appendix)							
Component	LOD/Units	Method						
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5				
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5				
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5				
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5				
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5				
PFOA (335-67-1)	<0.5 µg/kg	TM440		9.17				
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5				
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5				
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10				
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5				
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5				
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6				
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9				
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4				
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5				
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5				
Branched PFOS	<0.6 µg/kg	TM440		<0.6				
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6				
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5				
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4				
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5				
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5				
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8				
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5				
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5				
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6				
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6				
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6				
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7				
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5				
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5				
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5				
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5				



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Notification of NDPs (No determination possible)

Date Received : 19/11/2025 06:13:30

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
32475571	GR03-SP320-E WT	0.30 - 0.40	PFAS Liquids (Full Suite)	Insufficient Sample



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Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32475617	32475666	32475668	32475670	32475576	32475584	32475592	32475597	32475578	32475586
	GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR04-SP440-A	GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S2	GR03-SP320-A-S2
	WT	ES	ES	ES	ESA2	ESA1	ES	ES	ESA2	ESA1
	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.50 - 0.60	0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.50 - 0.60
	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils		03-Dec-2025	03-Dec-2025	03-Dec-2025	11-Dec-2025	08-Dec-2025	11-Dec-2025	08-Dec-2025	08-Dec-2025	11-Dec-2025
PFAS Liquids (Full Suite)	03-Dec-2025									
pH		21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description		20-Nov-2025	20-Nov-2025	20-Nov-2025	19-Nov-2025	20-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	20-Nov-2025
Total Organic Carbon		24-Nov-2025	25-Nov-2025	24-Nov-2025	27-Nov-2025	26-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	28-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32475580	32475588	32475634	32475636	32475663	32475582	32475590	32475599	32475601	32475684
	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S2	GR04-SP419-A-S2	GR03-SP320-B	GR03-SP320-B	GR03-SP320-B
	ESA2	ESA1	ES	ES	WS	ESA2	ESA1	ES	ES	ESALS
	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.40 - 0.50	0.00 - 0.50	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.40 - 0.50	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	11-Dec-2025	03-Dec-2025	11-Dec-2025	08-Dec-2025		08-Dec-2025	11-Dec-2025	11-Dec-2025	11-Dec-2025	03-Dec-2025
PFAS Liquids (Full Suite)					03-Dec-2025					
pH	25-Nov-2025	21-Nov-2025	25-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description	20-Nov-2025	19-Nov-2025	20-Nov-2025	20-Nov-2025		20-Nov-2025	20-Nov-2025	19-Nov-2025	20-Nov-2025	19-Nov-2025
Total Organic Carbon	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025		28-Nov-2025	28-Nov-2025	28-Nov-2025	26-Nov-2025	25-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32475638	32475643	32475645	32475574	32475672	32475674	32475603	32475605	32475607	32475640
	GR04-SP419-B	GR04-SP419-B	GR04-SP419-B	GR04-SP440-B	GR04-SP440-B	GR04-SP440-B	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C	GR03-SP320-C
	ES	ES	ES	ESALS	ES	ES	ES	ES	ES	WS
	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.20 - 0.30	0.00 - 0.10	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	03-Dec-2025	03-Dec-2025	03-Dec-2025	11-Dec-2025	03-Dec-2025	03-Dec-2025	03-Dec-2025	08-Dec-2025	11-Dec-2025	
PFAS Liquids (Full Suite)										03-Dec-2025
pH	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	
Sample description	19-Nov-2025	19-Nov-2025	19-Nov-2025	20-Nov-2025	20-Nov-2025	19-Nov-2025	19-Nov-2025	20-Nov-2025	19-Nov-2025	
Total Organic Carbon	28-Nov-2025	28-Nov-2025	27-Nov-2025	27-Nov-2025	25-Nov-2025	24-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	

Lab Sample No(s) Customer Sample Ref.	32475647	32475649	32475651	32475676	32475678	32475680	32475609	32475611	32475613	32475653
	GR04-SP419-C	GR04-SP419-C	GR04-SP419-C	GR04-SP440-C	GR04-SP440-C	GR04-SP440-C	GR03-SP320-D	GR03-SP320-D	GR03-SP320-D	GR04-SP419-D
	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	04-Dec-2025	03-Dec-2025	03-Dec-2025	03-Dec-2025	03-Dec-2025	04-Dec-2025	11-Dec-2025	11-Dec-2025	03-Dec-2025	11-Dec-2025
pH	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description	19-Nov-2025	19-Nov-2025	19-Nov-2025	20-Nov-2025	20-Nov-2025	20-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025
Total Organic Carbon	27-Nov-2025	27-Nov-2025	27-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32475655	32475657	32475571	32475615	32475620	32475686	32475659	32475661	32475688	32475622
	GR04-SP419-D	GR04-SP419-D	GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR03-SP320-E	GR04-SP419-E	GR04-SP419-E	GR04-SP419-E	GR03-SP320-F
	ES	ES	WT	ES	ES	ESALS	ES	ES	ESALS	ES
	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	11-Dec-2025	03-Dec-2025		11-Dec-2025	11-Dec-2025	03-Dec-2025	02-Dec-2025	03-Dec-2025	03-Dec-2025	08-Dec-2025
PFAS Liquids (Full Suite)			05-Dec-2025							
pH	21-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description	19-Nov-2025	19-Nov-2025		20-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	19-Nov-2025	20-Nov-2025
Total Organic Carbon	28-Nov-2025	26-Nov-2025		28-Nov-2025	27-Nov-2025	25-Nov-2025	27-Nov-2025	24-Nov-2025	24-Nov-2025	26-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32475624	32475626	32475594	32475628	32475630	32475632
	GR03-SP320-F	GR03-SP320-F	GR03-SP320-G	GR03-SP320-G	GR03-SP320-G	GR03-SP320-G
	ES	ES	WT	ES	ES	ES
	0.30 - 0.40	0.40 - 0.50	0.20 - 0.30	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	04-Dec-2025	11-Dec-2025		03-Dec-2025	02-Dec-2025	03-Dec-2025
PFAS Liquids (Full Suite)			03-Dec-2025			
pH	21-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	21-Nov-2025
Sample description	19-Nov-2025	19-Nov-2025		19-Nov-2025	19-Nov-2025	19-Nov-2025
Total Organic Carbon	27-Nov-2025	28-Nov-2025		27-Nov-2025	27-Nov-2025	27-Nov-2025



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ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3237	QC 3220	QC 3206	QC 3277	QC 3235	QC 3239
10:2 FTS (Raw)	TM440	90.9 53.10 : 140.00	112.6 53.10 : 140.00	102.53 53.10 : 140.00	121.61 53.10 : 140.00	121.31 53.10 : 140.00	112.01 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	95.11 53.56 : 141.19	123.87 53.56 : 141.19	99.93 53.56 : 141.19	132.46 53.56 : 141.19	112.08 53.56 : 141.19	108.22 53.56 : 141.19
3:3 FTCA (Raw)	TM440	101.81 50.54 : 133.25	110.38 50.54 : 133.25	113.88 50.54 : 133.25	115.79 50.54 : 133.25	109.84 50.54 : 133.25	114.55 50.54 : 133.25
4:2 FTS (Raw)	TM440	99.29 56.34 : 145.91	103.33 56.34 : 145.91	102.36 56.34 : 145.91	110.13 56.34 : 145.91	108.9 56.34 : 145.91	120.36 56.34 : 145.91
5:3 FTCA (Raw)	TM440	106.8 52.66 : 130.08	104.29 52.66 : 130.08	113.77 52.66 : 130.08	123.46 52.66 : 130.08	95.65 52.66 : 130.08	108.44 52.66 : 130.08
6:2 FTAB (Raw)	TM440	40.04 38.50 : 101.50	45.23 38.50 : 101.50	37.6 38.50 : 101.50	31.3 38.50 : 101.50	43.46 38.50 : 101.50	42.73 38.50 : 101.50
6:2 FTS (Raw)	TM440	93.42 54.79 : 144.46	122.12 54.79 : 144.46	97.62 54.79 : 144.46	111.26 54.79 : 144.46	126.17 54.79 : 144.46	97.9 54.79 : 144.46
7:3 FTCA (Raw)	TM440	87.11 48.60 : 128.14	94.45 48.60 : 128.14	103.59 48.60 : 128.14	114.05 48.60 : 128.14	107.97 48.60 : 128.14	107.88 48.60 : 128.14
8:2 diPAP (Raw)	TM440	96.45 56.03 : 147.72	88.15 56.03 : 147.72	81.43 56.03 : 147.72	92.79 56.03 : 147.72	98.46 56.03 : 147.72	108.61 56.03 : 147.72
8:2 FTS (Raw)	TM440	111.21 55.74 : 146.96	116.13 55.74 : 146.96	120.06 55.74 : 146.96	110.41 55.74 : 146.96	116.79 55.74 : 146.96	111.46 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	112.34 54.59 : 143.91	111.54 54.59 : 143.91	100.34 54.59 : 143.91	122.23 54.59 : 143.91	104.32 54.59 : 143.91	106.54 54.59 : 143.91
ADONA (Raw)	TM440	97.09 54.01 : 132.33	101.78 54.01 : 132.33	98.4 54.01 : 132.33	107.71 54.01 : 132.33	109.06 54.01 : 132.33	111.83 54.01 : 132.33
Branched PFOS (Raw)	TM440	99.35 54.09 : 142.61	116.36 54.09 : 142.61	100.64 54.09 : 142.61	112.72 54.09 : 142.61	97.52 54.09 : 142.61	114.36 54.09 : 142.61
EtFOSAA (Raw)	TM440	98.57 52.48 : 138.36	120.77 52.48 : 138.36	121.59 52.48 : 138.36	113.04 52.48 : 138.36	102.14 52.48 : 138.36	119.24 52.48 : 138.36
EtFOSE (Raw)	TM440	112.46 57.05 : 145.29	106.52 57.05 : 145.29	105.91 57.05 : 145.29	111.41 57.05 : 145.29	106.48 57.05 : 145.29	71.85 57.05 : 145.29
FBSA (Raw)	TM440	89.53 49.51 : 125.13	91.92 49.51 : 125.13	101.85 49.51 : 125.13	101.69 49.51 : 125.13	105.77 49.51 : 125.13	93.95 49.51 : 125.13
FHxSA (Raw)	TM440	90.34 50.38 : 132.82	93.0 50.38 : 132.82	94.78 50.38 : 132.82	99.16 50.38 : 132.82	108.78 50.38 : 132.82	96.86 50.38 : 132.82
HFPO-DA (Raw)	TM440	95.91 53.47 : 140.98	118.55 53.47 : 140.98	110.99 53.47 : 140.98	119.88 53.47 : 140.98	120.61 53.47 : 140.98	117.65 53.47 : 140.98
HFPO-TA (Raw)	TM440	208.21 44.84 : 118.21	244.39 44.84 : 118.21	245.02 44.84 : 118.21	257.14 44.84 : 118.21	257.79 44.84 : 118.21	245.87 44.84 : 118.21
L-PFOS (Raw)	TM440	100.53 54.09 : 142.61	116.36 54.09 : 142.61	100.64 54.09 : 142.61	112.72 54.09 : 142.61	97.52 54.09 : 142.61	114.36 54.09 : 142.61
MeFOSAA (Raw)	TM440	114.67 53.02 : 139.78	107.93 53.02 : 139.78	107.88 53.02 : 139.78	116.33 53.02 : 139.78	107.21 53.02 : 139.78	114.09 53.02 : 139.78
MeFOSE (Raw)	TM440	105.85 54.99 : 144.97	108.81 54.99 : 144.97	99.95 54.99 : 144.97	108.38 54.99 : 144.97	103.87 54.99 : 144.97	105.05 54.99 : 144.97
N-EtFOSA (Raw)	TM440	99.0 59.56 : 132.93	105.16 59.56 : 132.93	116.97 59.56 : 132.93	112.93 59.56 : 132.93	102.94 59.56 : 132.93	113.05 59.56 : 132.93
NFDHA (Raw)	TM440	104.22 57.35 : 151.20	114.8 57.35 : 151.20	112.75 57.35 : 151.20	119.75 57.35 : 151.20	103.47 57.35 : 151.20	109.75 57.35 : 151.20
N-MeFOSA (Raw)	TM440	83.94 59.19 : 133.01	118.25 59.19 : 133.01	93.61 59.19 : 133.01	110.84 59.19 : 133.01	112.11 59.19 : 133.01	114.96 59.19 : 133.01
PFBA (Raw)	TM440	102.73 52.69 : 138.91	103.08 52.69 : 138.91	106.78 52.69 : 138.91	117.14 52.69 : 138.91	109.42 52.69 : 138.91	99.26 52.69 : 138.91



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Client Ref.: UK-70100310

Report Number: 785596
Location: Thornton Phase 3

Superseded Report: 783952

PFAS in soils

		QC 3237	QC 3220	QC 3206	QC 3277	QC 3235	QC 3239
PFBS (Raw)	TM440	89.61 53.31 : 140.54	111.31 53.31 : 140.54	96.28 53.31 : 140.54	104.64 53.31 : 140.54	106.11 53.31 : 140.54	104.51 53.31 : 140.54
PFDA (Raw)	TM440	100.49 53.39 : 140.76	107.72 53.39 : 140.76	117.14 53.39 : 140.76	116.86 53.39 : 140.76	109.95 53.39 : 140.76	104.39 53.39 : 140.76
PFDoA (Raw)	TM440	100.54 52.85 : 139.34	114.13 52.85 : 139.34	108.0 52.85 : 139.34	111.56 52.85 : 139.34	106.54 52.85 : 139.34	108.98 52.85 : 139.34
PFDoS (Raw)	TM440	90.78 55.29 : 145.76	121.85 55.29 : 145.76	97.2 55.29 : 145.76	119.49 55.29 : 145.76	107.4 55.29 : 145.76	109.95 55.29 : 145.76
PFDS (Raw)	TM440	103.84 52.94 : 139.56	121.17 52.94 : 139.56	96.81 52.94 : 139.56	124.37 52.94 : 139.56	105.04 52.94 : 139.56	103.42 52.94 : 139.56
PFecHS (Raw)	TM440	89.46 50.75 : 133.80	108.92 50.75 : 133.80	103.82 50.75 : 133.80	107.78 50.75 : 133.80	109.98 50.75 : 133.80	104.55 50.75 : 133.80
PFEESA (Raw)	TM440	94.43 50.87 : 134.12	114.43 50.87 : 134.12	109.52 50.87 : 134.12	120.14 50.87 : 134.12	108.74 50.87 : 134.12	110.12 50.87 : 134.12
PFHpA (Raw)	TM440	100.18 52.61 : 138.69	110.94 52.61 : 138.69	106.84 52.61 : 138.69	116.53 52.61 : 138.69	114.76 52.61 : 138.69	108.19 52.61 : 138.69
PFHpS (Raw)	TM440	117.58 55.29 : 145.76	122.63 55.29 : 145.76	104.91 55.29 : 145.76	111.28 55.29 : 145.76	110.39 55.29 : 145.76	120.83 55.29 : 145.76
PFHxA (Raw)	TM440	102.22 54.05 : 142.50	116.57 54.05 : 142.50	108.14 54.05 : 142.50	108.42 54.05 : 142.50	110.49 54.05 : 142.50	97.87 54.05 : 142.50
PFHxDA (Raw)	TM440	98.5 52.03 : 137.17	105.43 52.03 : 137.17	107.45 52.03 : 137.17	111.52 52.03 : 137.17	106.77 52.03 : 137.17	105.25 52.03 : 137.17
PFHxS (Raw)	TM440	100.04 53.56 : 141.19	106.66 53.56 : 141.19	104.69 53.56 : 141.19	106.44 53.56 : 141.19	109.62 53.56 : 141.19	107.85 53.56 : 141.19
PFMOBA (Raw)	TM440	100.69 52.73 : 139.02	110.85 52.73 : 139.02	112.32 52.73 : 139.02	115.89 52.73 : 139.02	104.71 52.73 : 139.02	101.26 52.73 : 139.02
PFMOPra (Raw)	TM440	119.24 52.57 : 138.58	117.27 52.57 : 138.58	123.67 52.57 : 138.58	129.15 52.57 : 138.58	121.1 52.57 : 138.58	116.25 52.57 : 138.58
PFNA (Raw)	TM440	101.19 52.94 : 139.56	114.55 52.94 : 139.56	105.29 52.94 : 139.56	112.8 52.94 : 139.56	114.78 52.94 : 139.56	102.99 52.94 : 139.56
PFNS (Raw)	TM440	115.58 54.38 : 143.37	114.83 54.38 : 143.37	101.87 54.38 : 143.37	117.24 54.38 : 143.37	98.51 54.38 : 143.37	102.85 54.38 : 143.37
PFOA (Raw)	TM440	103.18 53.80 : 141.85	105.98 53.80 : 141.85	106.29 53.80 : 141.85	120.32 53.80 : 141.85	111.73 53.80 : 141.85	104.48 53.80 : 141.85
PFODA (Raw)	TM440	104.41 56.03 : 147.72	95.51 56.03 : 147.72	96.28 56.03 : 147.72	87.33 56.03 : 147.72	102.13 56.03 : 147.72	98.65 56.03 : 147.72
PFOSA (Raw)	TM440	96.86 53.10 : 140.00	101.27 53.10 : 140.00	97.74 53.10 : 140.00	103.47 53.10 : 140.00	101.3 53.10 : 140.00	117.01 53.10 : 140.00
PFPA (Raw)	TM440	101.63 53.89 : 142.06	114.16 53.89 : 142.06	110.88 53.89 : 142.06	114.28 53.89 : 142.06	118.18 53.89 : 142.06	102.54 53.89 : 142.06
PFPeS (Raw)	TM440	101.1 54.30 : 143.15	111.76 54.30 : 143.15	109.85 54.30 : 143.15	103.07 54.30 : 143.15	107.21 54.30 : 143.15	106.6 54.30 : 143.15
PFTeA (Raw)	TM440	107.04 53.06 : 139.89	111.51 53.06 : 139.89	109.9 53.06 : 139.89	112.99 53.06 : 139.89	120.58 53.06 : 139.89	117.52 53.06 : 139.89
PFTrDA (Raw)	TM440	101.14 51.70 : 136.30	108.35 51.70 : 136.30	109.39 51.70 : 136.30	103.67 51.70 : 136.30	121.72 51.70 : 136.30	116.61 51.70 : 136.30
PFTrDS (Raw)	TM440	107.85 56.24 : 148.26	124.61 56.24 : 148.26	96.37 56.24 : 148.26	129.47 56.24 : 148.26	106.11 56.24 : 148.26	105.38 56.24 : 148.26
PFUnA (Raw)	TM440	103.26 53.35 : 140.65	103.73 53.35 : 140.65	109.06 53.35 : 140.65	111.37 53.35 : 140.65	110.95 53.35 : 140.65	103.12 53.35 : 140.65
PFUnDS (Raw)	TM440	95.63 53.60 : 141.30	119.57 53.60 : 141.30	90.52 53.60 : 141.30	121.59 53.60 : 141.30	110.18 53.60 : 141.30	105.77 53.60 : 141.30



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PFAS in soils

Component	Method Code	QC 3278
10:2 FTS (Raw)	TM440	106.29 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	92.55 53.56 : 141.19
3:3 FTCA (Raw)	TM440	101.74 50.54 : 133.25
4:2 FTS (Raw)	TM440	99.95 56.34 : 145.91
5:3 FTCA (Raw)	TM440	103.34 52.66 : 130.08
6:2 FTAB (Raw)	TM440	35.54 38.50 : 101.50
6:2 FTS (Raw)	TM440	88.76 54.79 : 144.46
7:3 FTCA (Raw)	TM440	93.61 48.60 : 128.14
8:2 diPAP (Raw)	TM440	98.64 56.03 : 147.72
8:2 FTS (Raw)	TM440	105.76 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	88.63 54.59 : 143.91
ADONA (Raw)	TM440	97.34 54.01 : 132.33
Branched PFOS (Raw)	TM440	96.72 54.09 : 142.61
EtFOSAA (Raw)	TM440	101.98 52.48 : 138.36
EtFOSE (Raw)	TM440	101.32 57.05 : 145.29
FBSA (Raw)	TM440	93.93 49.51 : 125.13
FHxSA (Raw)	TM440	90.57 50.38 : 132.82
HFPO-DA (Raw)	TM440	94.87 53.47 : 140.98
HFPO-TA (Raw)	TM440	199.43 44.84 : 118.21
L-PFOS (Raw)	TM440	96.72 54.09 : 142.61
MeFOSAA (Raw)	TM440	93.92 53.02 : 139.78
MeFOSE (Raw)	TM440	91.59 54.99 : 144.97
N-EtFOSA (Raw)	TM440	97.75 59.56 : 132.93
NFDHA (Raw)	TM440	94.64 57.35 : 151.20
N-MeFOSA (Raw)	TM440	107.87 59.19 : 133.01
PFBA (Raw)	TM440	89.76 52.69 : 138.91
PFBS (Raw)	TM440	89.87 53.31 : 140.54



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PFAS in soils

		QC 3278
PFDA (Raw)	TM440	91.98 53.39 : 140.76
PFDoA (Raw)	TM440	101.76 52.85 : 139.34
PFDoS (Raw)	TM440	95.59 55.29 : 145.76
PFDS (Raw)	TM440	90.85 52.94 : 139.56
PFecHS (Raw)	TM440	95.05 50.75 : 133.80
PFEESA (Raw)	TM440	96.62 50.87 : 134.12
PFHpA (Raw)	TM440	91.9 52.61 : 138.69
PFHpS (Raw)	TM440	96.5 55.29 : 145.76
PFHxA (Raw)	TM440	94.87 54.05 : 142.50
PFHxDA (Raw)	TM440	90.48 52.03 : 137.17
PFHxS (Raw)	TM440	96.37 53.56 : 141.19
PFMOBA (Raw)	TM440	88.25 52.73 : 139.02
PFMOPra (Raw)	TM440	112.47 52.57 : 138.58
PFNA (Raw)	TM440	91.56 52.94 : 139.56
PFNS (Raw)	TM440	91.3 54.38 : 143.37
PFOA (Raw)	TM440	91.04 53.80 : 141.85
PFODA (Raw)	TM440	88.43 56.03 : 147.72
PFOSA (Raw)	TM440	93.7 53.10 : 140.00
PFPA (Raw)	TM440	90.67 53.89 : 142.06
PFPeS (Raw)	TM440	95.53 54.30 : 143.15
PFTeA (Raw)	TM440	94.49 53.06 : 139.89
PFTrDA (Raw)	TM440	98.09 51.70 : 136.30
PFTrDS (Raw)	TM440	96.49 56.24 : 148.26
PFUnA (Raw)	TM440	86.48 53.35 : 140.65
PFUnDS (Raw)	TM440	91.1 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3273	QC 3251
11CI-PF3OUdS (763051-92-9)	TM434	116.97 62.16 : 138.51	107.29 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	104.45 89.89 : 130.69	97.75 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	99.54 66.54 : 140.56	109.82 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	90.32 60.34 : 133.39	102.16 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	99.62 59.12 : 129.56	105.27 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	106.43 67.48 : 129.58	111.61 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	106.88 79.83 : 133.08	102.18 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	91.03 81.70 : 132.18	112.88 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	103.39 71.98 : 136.03	99.35 69.20 : 147.13
ADONA (919005-14-4)	TM434	120.42 70.14 : 142.14	108.72 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	115.69 67.04 : 131.16	116.21 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	915.19 52.90 : 139.47	74.58 67.47 : 136.89
FBSA (30334-69-1)	TM434	115.54 58.08 : 137.20	91.35 63.70 : 143.28
FHxSA (41997-13-1)	TM434	115.05 71.81 : 148.16	101.41 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	105.32 57.03 : 123.70	106.47 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	111.96 58.05 : 153.05	112.76 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	108.37 69.95 : 145.18	100.67 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	109.55 68.44 : 128.29	113.02 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	94.16 70.83 : 132.00	85.65 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	73.22 59.26 : 122.86	61.4 57.83 : 132.08
NFDHA (151772-58-6)	TM434	97.28 59.99 : 133.56	113.0 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	80.24 62.71 : 118.96	59.6 61.69 : 135.49
PFBA (375-22-4)	TM434	101.3 67.84 : 130.39	113.88 74.68 : 133.63
PFBS (375-73-5)	TM434	113.56 90.25 : 126.25	105.02 74.09 : 133.79
PFDA (335-76-2)	TM434	96.98 68.94 : 132.99	105.97 72.39 : 135.76
PFDaA (307-55-1)	TM434	103.13 66.19 : 135.04	107.17 58.06 : 148.21
PFDoS (79780-39-5)	TM434	125.69 65.90 : 146.45	111.55 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3273	QC 3251
PFDS (335-77-3)	TM434	124.52 64.84 : 138.49	105.99 58.61 : 140.44
PFecHS (646-83-3)	TM434	113.18 81.53 : 139.35	107.44 76.93 : 133.25
PFEESA (113507-82-7)	TM434	114.33 67.24 : 129.19	106.3 62.25 : 138.08
PFHpA (375-85-9)	TM434	113.84 72.89 : 141.36	113.22 75.71 : 136.46
PFHpS (375-92-8)	TM434	114.38 72.19 : 155.36	101.08 76.13 : 132.38
PFHxA (307-24-4)	TM434	101.45 71.79 : 135.84	108.19 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	102.62 89.96 : 128.14	108.15 71.24 : 136.49
PFHxS (355-46-4)	TM434	110.01 84.41 : 134.44	104.91 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	112.35 84.99 : 139.74	109.03 76.41 : 130.26
PFMOPra (377-73-1)	TM434	116.19 80.40 : 136.73	112.64 65.74 : 128.74
PFNA (375-95-1)	TM434	100.71 68.61 : 128.99	110.85 75.01 : 133.06
PFNS (68259-12-1)	TM434	119.79 70.70 : 130.93	98.5 74.74 : 129.26
PFOA (335-67-1)	TM434	115.03 74.09 : 143.61	101.01 74.76 : 136.11
PFODA (16517-11-6)	TM434	11.64 67.60 : 178.22	105.8 53.58 : 141.25
PFOSA (754-91-6)	TM434	99.31 67.59 : 130.51	108.02 76.54 : 135.04
PFPA (2706-90-3)	TM434	116.9 74.20 : 140.58	110.02 77.89 : 134.66
PFPeS (2706-91-4)	TM434	116.9 76.19 : 137.91	110.48 69.49 : 132.71
PFTeA (376-06-7)	TM434	102.28 66.36 : 144.96	109.15 61.66 : 143.71
PFTrDA (72629-94-8)	TM434	114.71 71.98 : 130.25	120.21 67.04 : 136.04
PFTrDS (791563-89-8)	TM434	121.45 68.38 : 157.48	112.55 76.88 : 133.35
PFUnA (2058-94-8)	TM434	99.17 65.55 : 141.45	112.67 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	126.8 85.84 : 139.76	103.66 71.45 : 127.25

pH

Component	Method Code	QC 3272	QC 3274	QC 3276	QC 3252	QC 3254	QC 3256
pH	TM133	103.48 95.29 : 105.24	102.93 95.29 : 105.24	103.09 95.29 : 105.24	103.44 95.29 : 105.24	103.46 95.29 : 105.24	102.85 95.29 : 105.24



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Total Organic Carbon

Component	Method Code	QC 3258	QC 3281	QC 3284	QC 3249	QC 3253	QC 3255
Total Organic Carbon	TM132	94.7 93.61 : 106.00	96.91 93.61 : 106.00	95.05 93.61 : 106.00	97.82 93.61 : 106.00	97.42 93.61 : 106.00	97.33 93.61 : 106.00

Component	Method Code	QC 3257	QC 3200	QC 3205	QC 3269	QC 3275
Total Organic Carbon	TM132	95.26 93.61 : 106.00	98.22 93.61 : 106.00	97.66 93.61 : 106.00	96.41 93.61 : 106.00	98.17 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis.

The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
Main
Manchester
M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation: 18 December 2025
Customer: WSP UK Limited
Sample Delivery Group (SDG): 251121-24
Your Reference: UK-70100310
Location: Thornton Phase 3
Report No: 786518
Order Number: UK-70100310

This report has been revised and directly supersedes 784597 in its entirety.

We received 39 samples on Friday November 21, 2025 and 39 of these samples were scheduled for analysis which was completed on Thursday December 18, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32490068	GR03-SP301-A	ESALS	0.00 - 0.10	19/11/2025
32490006	GR03-SP301-A	ES	0.20 - 0.30	19/11/2025
32490021	GR03-SP301-A	WS	0.20 - 0.30	19/11/2025
32490008	GR03-SP301-A	ES	0.40 - 0.50	19/11/2025
32490048	GR04-SP403-A	ES	0.00 - 0.10	19/11/2025
32490050	GR04-SP403-A	ES	0.20 - 0.30	19/11/2025
32490052	GR04-SP403-A	ES	0.40 - 0.50	19/11/2025
32490064	GR04-SP408-A	ES	0.00 - 0.10	19/11/2025
32490066	GR04-SP408-A	ES	0.20 - 0.30	19/11/2025
32490076	GR04-SP408-A	ESALS	0.40 - 0.50	19/11/2025
32490010	GR03-SP301-B	ES	0.10 - 0.20	19/11/2025
32490012	GR03-SP301-B	ES	0.30 - 0.40	19/11/2025
32490014	GR03-SP301-B	ES	0.50 - 0.60	19/11/2025
32490054	GR04-SP403-B	ES	0.10 - 0.20	19/11/2025
32490074	GR04-SP403-B	ESALS	0.30 - 0.40	19/11/2025
32490056	GR04-SP403-B	ES	0.50 - 0.60	19/11/2025
32490016	GR03-SP301-C	ES	0.00 - 0.10	19/11/2025
32490019	GR03-SP301-C	ES	0.30 - 0.40	19/11/2025
32490024	GR03-SP301-C	ES	0.40 - 0.50	19/11/2025
32490058	GR04-SP403-C	ES	0.00 - 0.10	19/11/2025
32490045	GR04-SP403-C	WS	0.00 - 0.50	19/11/2025
32490060	GR04-SP403-C	ES	0.30 - 0.40	19/11/2025
32490062	GR04-SP403-C	ES	0.40 - 0.50	19/11/2025
32490026	GR03-SP301-D	ES	0.10 - 0.20	19/11/2025
32490070	GR03-SP301-D	ESALS	0.20 - 0.30	19/11/2025
32490028	GR03-SP301-D	ES	0.50 - 0.60	19/11/2025
32490030	GR03-SP301-E	ES	0.10 - 0.20	19/11/2025
32490033	GR03-SP301-E	ES	0.20 - 0.30	19/11/2025
32490035	GR03-SP301-E	ES	0.40 - 0.50	19/11/2025
32489997	GR03-SP301-E	WT	0.40 - 0.50	19/11/2025
32490002	GR03-SP301-F-S1	ESA1	0.10 - 0.20	19/11/2025
32490078	GR03-SP301-F-S1	ESA2	0.10 - 0.20	19/11/2025
32490037	GR03-SP301-F-S1	ES	0.30 - 0.40	19/11/2025
32490039	GR03-SP301-F-S1	ES	0.50 - 0.60	19/11/2025
32490004	GR03-SP301-F-S2	ESA1	0.10 - 0.20	19/11/2025
32490000	GR03-SP301-F-S2	ESA2	0.10 - 0.20	19/11/2025
32490072	GR03-SP301-G	ESALS	0.00 - 0.10	19/11/2025
32490041	GR03-SP301-G	ES	0.30 - 0.40	19/11/2025
32490043	GR03-SP301-G	ES	0.40 - 0.50	19/11/2025

Only received samples which have had analysis scheduled will be shown on the following pages.



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Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32490024	GR03-SP301-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32490019	GR03-SP301-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32490016	GR03-SP301-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32490056	GR04-SP403-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32490074	GR04-SP403-B	ESALS	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32490054	GR04-SP403-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32490014	GR03-SP301-B	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32490012	GR03-SP301-B	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32490010	GR03-SP301-B	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32490076	GR04-SP408-A	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32490066	GR04-SP408-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32490064	GR04-SP408-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32490052	GR04-SP403-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32490050	GR04-SP403-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32490048	GR04-SP403-A	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32490008	GR03-SP301-A	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32490021	GR03-SP301-A	WS	0.20 - 0.30	50ml digtube (ALE001)	PW						
	32490006	GR03-SP301-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32490068	GR03-SP301-A	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)		All	NDPs: 0 Tests: 3									
pH		All	NDPs: 0 Tests: 36									
Sample description		All	NDPs: 0 Tests: 30									
Total Organic Carbon		All	NDPs: 0 Tests: 36									

32490043	GR03-SP301-G	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490041	GR03-SP301-G	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490072	GR03-SP301-G	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490000	GR03-SP301-F-S2	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490004	GR03-SP301-F-S2	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490039	GR03-SP301-F-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490037	GR03-SP301-F-S1	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X			X
32490078	GR03-SP301-F-S1	ESA2	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490002	GR03-SP301-F-S1	ESA1	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32489997	GR03-SP301-E	WT	0.40 - 0.50	50ml digitube (ALE001)	PW		X					
32490035	GR03-SP301-E	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X			X
32490033	GR03-SP301-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490030	GR03-SP301-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490028	GR03-SP301-D	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X			X
32490070	GR03-SP301-D	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490026	GR03-SP301-D	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490062	GR04-SP403-C	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X	X		X
32490060	GR04-SP403-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X			X
32490045	GR04-SP403-C	WS	0.00 - 0.50	50ml digitube (ALE001)	PW		X					
32490058	GR04-SP403-C	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X	X		X



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Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32490006	GR03-SP301-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Concrete/Aggregate
32490008	GR03-SP301-A	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	Brick
32490068	GR03-SP301-A	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32490048	GR04-SP403-A	0.00 - 0.10	Dark Brown	Silt Loam	Glass & Stones	Vegetation
32490050	GR04-SP403-A	0.20 - 0.30	Dark Brown	Sandy Loam	Vegetation	None
32490052	GR04-SP403-A	0.40 - 0.50	Light Brown	Silt Loam	Vegetation	None
32490064	GR04-SP408-A	0.00 - 0.10	Dark Brown	Sand	Stones	Vegetation
32490066	GR04-SP408-A	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Concrete/Aggregate	Stones
32490076	GR04-SP408-A	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Concrete/Aggregate	Tile/Insulation Board
32490010	GR03-SP301-B	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32490012	GR03-SP301-B	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32490014	GR03-SP301-B	0.50 - 0.60	Dark Brown	Sandy Clay	Stones	Vegetation
32490054	GR04-SP403-B	0.10 - 0.20	Dark Brown	Sandy Loam	Stones	Vegetation
32490056	GR04-SP403-B	0.50 - 0.60	Dark Brown	Sandy Loam	Vegetation	None
32490074	GR04-SP403-B	0.30 - 0.40	Dark Brown	Sandy Loam	Stones	Vegetation
32490016	GR03-SP301-C	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32490019	GR03-SP301-C	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32490024	GR03-SP301-C	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	Vegetation
32490058	GR04-SP403-C	0.00 - 0.10	Black	Silty Clay Loam	Stones	Vegetation
32490060	GR04-SP403-C	0.30 - 0.40	Light Brown	Silt Loam	Brick	Stones
32490062	GR04-SP403-C	0.40 - 0.50	Light Brown	Silt Loam	Vegetation	None
32490026	GR03-SP301-D	0.10 - 0.20	Light Brown	Silty Clay Loam	Stones	Vegetation
32490028	GR03-SP301-D	0.50 - 0.60	Light Brown	Silty Clay Loam	Concrete/Aggregate	Brick
32490070	GR03-SP301-D	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32490030	GR03-SP301-E	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Concrete/Aggregate
32490033	GR03-SP301-E	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Brick
32490035	GR03-SP301-E	0.40 - 0.50	Light Brown	Silty Clay Loam	Brick	Stones
32490002	GR03-SP301-F-S1	0.10 - 0.20	Light Brown	Silty Clay Loam	Stones	Vegetation
32490037	GR03-SP301-F-S1	0.30 - 0.40	Light Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32490039	GR03-SP301-F-S1	0.50 - 0.60	Dark Brown	Silty Clay Loam	Concrete/Aggregate	Stones
32490078	GR03-SP301-F-S1	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Brick
32490000	GR03-SP301-F-S2	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32490004	GR03-SP301-F-S2	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32490041	GR03-SP301-G	0.30 - 0.40	Dark Brown	Sandy Clay	Stones	Vegetation
32490043	GR03-SP301-G	0.40 - 0.50	Light Brown	Sandy Clay Loam	Stones	Brick
32490072	GR03-SP301-G	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation



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These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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SDG: 251121-24
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Results Legend			Customer Sample Ref.		GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR04-SP403-A	GR04-SP403-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
diss.filt	Dissolved / filtered sample.				21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
tot.unfilt	Total / unfiltered sample.				251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
* Subcontracted - refer to subcontractor report for accreditation status.					32490068	32490066	32490021	32490008	32490048	32490050
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	WS	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434					<0.002			
PFMOPra (377-73-1)	<0.001 µg/l	TM434					<0.001			
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434					<0.005			
PFPA (2706-90-3)	<0.001 µg/l	TM434					<0.001			
PFMOBA (863090-89-5)	<0.001 µg/l	TM434					<0.001			
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434					<0.001			
NFDHA (151772-58-6)	<0.003 µg/l	TM434					<0.003			
PFBS (375-73-5)	<0.001 µg/l	TM434					<0.001			
PFHxA (307-24-4)	<0.001 µg/l	TM434					<0.001			
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434					<0.002			
PFEESA (113507-82-7)	<0.001 µg/l	TM434					<0.001			
PFHpA (375-85-9)	<0.001 µg/l	TM434					<0.001			
PFPeS (2706-91-4)	<0.001 µg/l	TM434					<0.001			
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434					<0.005			
ADONA (919005-14-4)	<0.001 µg/l	TM434					<0.001			
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434					<0.001			
FBSA (30334-69-1)	<0.001 µg/l	TM434					<0.001			
PFOA (335-67-1)	<0.00065 µg/l	TM434					<0.00065			
PFHxS (355-46-4)	<0.001 µg/l	TM434					<0.001			
PFNA (375-95-1)	<0.001 µg/l	TM434					<0.001			
PFHpS (375-92-8)	<0.001 µg/l	TM434					<0.001			
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434					<0.002			
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434					<0.005			
PFDA (335-76-2)	<0.002 µg/l	TM434					<0.002			
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434					<0.002			
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434					<0.005			
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434					<0.00065			
Branched PFOS	<0.00065 µg/l	TM434					<0.00065			
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434					<0.002			
PFUnA (2058-94-8)	<0.002 µg/l	TM434					<0.002			
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434					<0.001			
PFNS (68259-12-1)	<0.001 µg/l	TM434					<0.001			
FHxSA (41997-13-1)	<0.001 µg/l	TM434					<0.001			



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Results Legend			Customer Sample Ref.	GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR04-SP403-A	GR04-SP403-A
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**	@Sample deviation (see appendix)								
		Depth (m)	0.00 - 0.10	0.20 - 0.30	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	
		Sample Type	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
		Date Sampled	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	
		Sample Time	.	.	.	.	.	.	
		Date Received	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	
		SDG Ref	251121-24	251121-24	251121-24	251121-24	251121-24	251121-24	
		Lab Sample No.(s)	32490068	32490006	32490021	32490008	32490048	32490050	
		AGS Reference	ESALS	ES	WS	ES	ES	ES	
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002				
PFTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003				
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434			<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01				
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434			<0.001				
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001				
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434			<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01				
Total PFOS	<0.00065 µg/l	TM434			<0.00065				
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001				
PFTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024	28	22		19	24	24	
Soil Organic Matter (SOM)	<0.35 %	TM132	3.69	2.45		2	6.5	3.26	
pH	1 pH Units	TM133	7.67	8.58		8.43	7.75	7.82	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8		<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8		<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1		<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5		<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.		GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR04-SP403-A	GR04-SP403-A
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
diss.filt	Dissolved / filtered sample.				21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
tot.unfilt	Total / unfiltered sample.				251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
* Subcontracted - refer to subcontractor report for accreditation status.					32490068	32490066	32490021	32490008	32490048	32490050
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	WS	ES	ES	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			5.97	7.65		12.4	3.54	3.95
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	0.795	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
PFTTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6		<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFTTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.		GR04-SP403-A	GR04-SP408-A	GR04-SP408-A	GR04-SP408-A	GR03-SP301-B	GR03-SP301-B
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
diss.filt	Dissolved / filtered sample.				21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
tot.unfilt	Total / unfiltered sample.				251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
Subcontracted - refer to subcontractor report for accreditation status.					32490052	32490064	32490066	32490076	32490010	32490012
*** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ESALS	ES	ES
*** 6.2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			19	13	13	15	17	19
Soil Organic Matter (SOM)	<0.35 %	TM132			0.726	6.34	3.64	3.22	1.74	1.35
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.14	8.47	8.49	8.66	8.48	8.72
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	0.759	<0.5	0.692	<0.5	0.691
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.39	2.07	1.84	4.33	3.13	6.16
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.	GR03-SP301-B	GR04-SP403-B	GR04-SP403-B	GR04-SP403-B	GR03-SP301-C	GR03-SP301-C
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	18	29	27	23	28	19	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.29	8.62	6.34	1.79	4.02	2.1	
pH	1 pH Units	TM133	8.62	7.72	7.84	7.89	6.5	8.25	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	0.925	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.01	9.12	7.28	3.19	3.39	4.19	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	0.838	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	2.18	1.65	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.	GR03-SP301-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR03-SP301-D
#	ISO17025 accredited.								
M	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4*§@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002				
PFMOPrA (377-73-1)	<0.001 µg/l	TM434			<0.001				
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005				
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001				
PFMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001				
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001				
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003				
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001				
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001				
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002				
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001				
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001				
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001				
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005				
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001				
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001				
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001				
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065				
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001				
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001				
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001				
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002				
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			<0.005				
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002				
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002				
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005				
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065				
Branched PFOS	<0.00065 µg/l	TM434			<0.00065				
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002				
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002				
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001				
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001				
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001				



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.		GR03-SP301-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR03-SP301-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.40 - 0.50 Soil/Solid (S) 19/11/2025	0.00 - 0.10 Soil/Solid (S) 19/11/2025	0.00 - 0.50 Process Water (PR) 19/11/2025	0.30 - 0.40 Soil/Solid (S) 19/11/2025	0.40 - 0.50 Soil/Solid (S) 19/11/2025	0.10 - 0.20 Soil/Solid (S) 19/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
*** 6:2 FTAB (see appendix)					32490024	32490058	32490045	32490060	32490062	32490026
1-4* @ Sample deviation (see appendix)					ES	ES	WS	ES	ES	ES
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434					<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434					<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434					<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434					<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434					<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434					<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434					<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434					<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434					<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434					<0.01			
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434					<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434					<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434					<0.001			
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434					<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434					<0.01			
Total PFOS	<0.00065 µg/l	TM434					<0.00065			
Total PFAS DWI 47	<0.09 µg/l	TM434					<0.09			
PFecHS (646-83-3)	<0.001 µg/l	TM434					<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434					<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024			14	34		21	20	25
Soil Organic Matter (SOM)	<0.35 %	TM132			2.38	12.8		2.86	1.78	3.34
pH	1 pH Units	TM133			8.72	7.44		7.89	7.89	8.07
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8		<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	1.05		<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8		<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1		<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.	GR03-SP301-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR03-SP301-D
# ISO17025 accredited. m MCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4**@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.40 - 0.50 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490024 ES	0.00 - 0.10 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490058 ES	0.00 - 0.50 Process Water (PR) 19/11/2025 21/11/2025 251121-24 32490045 WS	0.30 - 0.40 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490060 ES	0.40 - 0.50 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490062 ES	0.10 - 0.20 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490026 ES
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5		<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		4.01	2.93		4.6	3.63	3.49
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10		<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9		<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4		<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	1.37		<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	2.67		<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5		<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4		<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8		<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6		<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7		<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5		<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.	GR03-SP301-D	GR03-SP301-D	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4* Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m)	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50
PFBA (375-22-4)	<0.002 µg/l	TM434	Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
PFMOPra (377-73-1)	<0.001 µg/l	TM434	Date Sampled	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	Sample Time						
PFPA (2706-90-3)	<0.001 µg/l	TM434	Date Received	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	SDG Ref	251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	Lab Sample No.(s)	32490070	32490028	32490030	32490033	32490035	32489997
NFDHA (151772-58-6)	<0.003 µg/l	TM434	AGS Reference	ESALS	ES	ES	ES	ES	WT
PFBS (375-73-5)	<0.001 µg/l	TM434							
PFHxA (307-24-4)	<0.001 µg/l	TM434							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							
PFHpA (375-85-9)	<0.001 µg/l	TM434							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							
ADONA (919005-14-4)	<0.001 µg/l	TM434							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							
FBSA (30334-69-1)	<0.001 µg/l	TM434							
PFOA (335-67-1)	<0.00065 µg/l	TM434							
PFHxS (355-46-4)	<0.001 µg/l	TM434							
PFNA (375-95-1)	<0.001 µg/l	TM434							
PFHpS (375-92-8)	<0.001 µg/l	TM434							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							
PFDA (335-76-2)	<0.002 µg/l	TM434							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							
Branched PFOS	<0.00065 µg/l	TM434							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							
PFUnA (2058-94-8)	<0.002 µg/l	TM434							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							
PFNS (68259-12-1)	<0.001 µg/l	TM434							
FHxSA (41997-13-1)	<0.001 µg/l	TM434							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.		GR03-SP301-D	GR03-SP301-D	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50	0.40 - 0.50
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
diss.filt	Dissolved / filtered sample.				21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
tot.unfilt	Total / unfiltered sample.				251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
* Subcontracted - refer to subcontractor report for accreditation status.					32490070	32490028	32490030	32490033	32490035	32489997
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESALS	ES	ES	ES	ES	WT
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
Total PFAS DWI 47	<0.09 µg/l	TM434								<0.09
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			15	15	23	18	18	
Soil Organic Matter (SOM)	<0.35 %	TM132			1.84	0.84	6.45	2.22	1.79	
pH	1 pH Units	TM133			8.47	8.84	8.01	8.68	8.59	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	0.734	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.	GR03-SP301-D	GR03-SP301-D	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E
# ISO17025 accredited. m MCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.30 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490070 ESALS	0.50 - 0.60 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490028 ES	0.10 - 0.20 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490030 ES	0.20 - 0.30 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490033 ES	0.40 - 0.50 Soil/Solid (S) 19/11/2025 21/11/2025 251121-24 32490035 ES	0.40 - 0.50 Process Water (PR) 19/11/2025 21/11/2025 251121-24 32489997 WT
Component	LOD/Units	Method							
PFHpA (375-85-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		3.93	15.5	3.57	9.04	10.5	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend			Customer Sample Ref.		GR03-SP301-F-S1	GR03-SP301-F-S1	GR03-SP301-F-S1	GR03-SP301-F-S1	GR03-SP301-F-S2	GR03-SP301-F-S2
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025
diss.filt	Dissolved / filtered sample.				21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025	21/11/2025
tot.unfilt	Total / unfiltered sample.				251121-24	251121-24	251121-24	251121-24	251121-24	251121-24
* Subcontracted - refer to subcontractor report for accreditation status.					32490002	32490078	32490037	32490039	32490004	32490000
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ES	ES	ESA1	ESA2
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
Moisture Content Ratio (% of as received sample)	%	PM024			24	23	19	10	19	22
Soil Organic Matter (SOM)	<0.35 %	TM132			3.14	3.71	1.7	1.42	2.34	2.65
					#	#	#	#	#	#
pH	1 pH Units	TM133			8.49	8.23	8.77	8.61	8.41	8.21
					M	M	M	M	M	M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	0.697	<0.5	<0.5	<0.5	0.749
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.79	2.94	3.42	6.73	4.12	2.7
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4	11.9
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Results Legend		Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP301-G		GR03-SP301-G		GR03-SP301-G				
#	ISO17025 accredited.		0.00 - 0.10		0.30 - 0.40		0.40 - 0.50				
M	mCERTS accredited.		Soil/Solid (S)		Soil/Solid (S)		Soil/Solid (S)				
aq	Aqueous / settled sample.		19/11/2025		19/11/2025		19/11/2025				
diss.filt	Dissolved / filtered sample.		21/11/2025		21/11/2025		21/11/2025				
tot.unfilt	Total / unfiltered sample.		251121-24		251121-24		251121-24				
* Subcontracted - refer to subcontractor report for accreditation status.			32490072		32490041		32490043				
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			ESALS		ES		ES				
*** 6:2 FTAB (see appendix)											
1-4*§@Sample deviation (see appendix)											
Component	LOD/Units	Method									
Moisture Content Ratio (% of as received sample)	%	PM024	21	17	16						
Soil Organic Matter (SOM)	<0.35 %	TM132	2.65	2.29	1.58						
			#	#	#						
pH	1 pH Units	TM133	8.24	8.67	8.47						
			M	M	M						
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8						
PFPA (2706-90-3)	<0.5 µg/kg	TM440	0.642	<0.5	<0.5						
PfMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8						
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1						
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5						
PFOA (335-67-1)	<0.5 µg/kg	TM440	3.57	2.02	3.32						
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10						
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6						
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9						
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4						
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5						
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6						
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6						
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310

Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

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SDG: 251121-24
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Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32490006	32490008	32490021	32490068	32490048	32490050	32490052	32490064	32490066	32490076
	GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR03-SP301-A	GR04-SP403-A	GR04-SP403-A	GR04-SP403-A	GR04-SP408-A	GR04-SP408-A	GR04-SP408-A
	ES	ES	WS	ESALS	ES	ES	ES	ES	ES	ESALS
	0.20 - 0.30	0.40 - 0.50	0.20 - 0.30	0.00 - 0.10	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	08-Dec-2025	09-Dec-2025		09-Dec-2025	04-Dec-2025	04-Dec-2025	04-Dec-2025	09-Dec-2025	09-Dec-2025	04-Dec-2025
PFAS Liquids (Full Suite)			18-Dec-2025							
pH	25-Nov-2025	25-Nov-2025		25-Nov-2025	02-Dec-2025	25-Nov-2025	02-Dec-2025	25-Nov-2025	26-Nov-2025	26-Nov-2025
Sample description	21-Nov-2025	21-Nov-2025		21-Nov-2025	25-Nov-2025	24-Nov-2025	25-Nov-2025	24-Nov-2025	25-Nov-2025	25-Nov-2025
Total Organic Carbon	26-Nov-2025	26-Nov-2025		26-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	28-Nov-2025	27-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32490010	32490012	32490014	32490054	32490056	32490074	32490016	32490019	32490024	32490045
	GR03-SP301-B	GR03-SP301-B	GR03-SP301-B	GR04-SP403-B	GR04-SP403-B	GR04-SP403-B	GR03-SP301-C	GR03-SP301-C	GR03-SP301-C	GR04-SP403-C
	ES	ES	ES	ES	ES	ESALS	ES	ES	ES	WS
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.50 - 0.60	0.30 - 0.40	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	08-Dec-2025	04-Dec-2025	08-Dec-2025	08-Dec-2025	09-Dec-2025	04-Dec-2025	04-Dec-2025	08-Dec-2025	04-Dec-2025	
PFAS Liquids (Full Suite)										18-Dec-2025
pH	25-Nov-2025	02-Dec-2025	26-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	
Sample description	21-Nov-2025	25-Nov-2025	25-Nov-2025	24-Nov-2025	24-Nov-2025	24-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	
Total Organic Carbon	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	27-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	

Lab Sample No(s) Customer Sample Ref.	32490058	32490060	32490062	32490026	32490028	32490070	32489997	32490030	32490033	32490035
	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR03-SP301-D	GR03-SP301-D	GR03-SP301-D	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E	GR03-SP301-E
	ES	ES	ES	ES	ES	ESALS	WT	ES	ES	ES
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.50 - 0.60	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.40 - 0.50
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	04-Dec-2025	04-Dec-2025	04-Dec-2025	04-Dec-2025	04-Dec-2025	08-Dec-2025		09-Dec-2025	08-Dec-2025	04-Dec-2025
PFAS Liquids (Full Suite)							08-Dec-2025			
pH	26-Nov-2025	02-Dec-2025	26-Nov-2025	25-Nov-2025	02-Dec-2025	25-Nov-2025		25-Nov-2025	25-Nov-2025	02-Dec-2025
Sample description	25-Nov-2025	25-Nov-2025	25-Nov-2025	21-Nov-2025	25-Nov-2025	21-Nov-2025		21-Nov-2025	21-Nov-2025	25-Nov-2025
Total Organic Carbon	27-Nov-2025	27-Nov-2025	27-Nov-2025	26-Nov-2025	27-Nov-2025	26-Nov-2025		27-Nov-2025	26-Nov-2025	27-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32490002	32490037	32490039	32490078	32490000	32490004	32490041	32490043	32490072
	GR03-SP301-F-S1	GR03-SP301-F-S1	GR03-SP301-F-S1	GR03-SP301-F-S1	GR03-SP301-F-S2	GR03-SP301-F-S2	GR03-SP301-G	GR03-SP301-G	GR03-SP301-G
	ESA1	ES	ES	ESA2	ESA2	ESA1	ES	ES	ESALS
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.40 - 0.50	0.00 - 0.10
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	04-Dec-2025	04-Dec-2025	08-Dec-2025	08-Dec-2025	09-Dec-2025	08-Dec-2025	08-Dec-2025	08-Dec-2025	04-Dec-2025
pH	02-Dec-2025	02-Dec-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	02-Dec-2025	25-Nov-2025	25-Nov-2025
Sample description	25-Nov-2025	25-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	21-Nov-2025	25-Nov-2025	21-Nov-2025	21-Nov-2025
Total Organic Carbon	27-Nov-2025	27-Nov-2025	26-Nov-2025	27-Nov-2025	26-Nov-2025	26-Nov-2025	27-Nov-2025	26-Nov-2025	26-Nov-2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251121-24
Client Ref.: UK-70100310Report Number: 786518
Location: Thornton Phase 3

Superseded Report: 784597

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3277	QC 3281	QC 3280	QC 3258
10:2 FTS (Raw)	TM440	121.61 53.10 : 140.00	103.97 53.10 : 140.00	109.14 53.10 : 140.00	101.77 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	132.46 53.56 : 141.19	116.92 53.56 : 141.19	107.87 53.56 : 141.19	89.04 53.56 : 141.19
3:3 FTCA (Raw)	TM440	115.79 50.54 : 133.25	104.37 50.54 : 133.25	99.56 50.54 : 133.25	97.79 50.54 : 133.25
4:2 FTS (Raw)	TM440	110.13 56.34 : 145.91	102.24 56.34 : 145.91	109.15 56.34 : 145.91	87.96 56.34 : 145.91
5:3 FTCA (Raw)	TM440	123.46 52.66 : 130.08	105.42 52.66 : 130.08	112.75 52.66 : 130.08	92.84 52.66 : 130.08
6:2 FTAB (Raw)	TM440	31.3 38.50 : 101.50	46.34 38.50 : 101.50	37.07 38.50 : 101.50	36.88 38.50 : 101.50
6:2 FTS (Raw)	TM440	111.26 54.79 : 144.46	110.02 54.79 : 144.46	116.88 54.79 : 144.46	89.52 54.79 : 144.46
7:3 FTCA (Raw)	TM440	114.05 48.60 : 128.14	105.57 48.60 : 128.14	111.08 48.60 : 128.14	101.83 48.60 : 128.14
8:2 diPAP (Raw)	TM440	92.79 56.03 : 147.72	89.36 56.03 : 147.72	87.06 56.03 : 147.72	86.86 56.03 : 147.72
8:2 FTS (Raw)	TM440	110.41 55.74 : 146.96	117.07 55.74 : 146.96	110.09 55.74 : 146.96	83.46 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	122.23 54.59 : 143.91	107.25 54.59 : 143.91	121.64 54.59 : 143.91	87.37 54.59 : 143.91
ADONA (Raw)	TM440	107.71 54.01 : 132.33	103.79 54.01 : 132.33	96.92 54.01 : 132.33	93.71 54.01 : 132.33
Branched PFOS (Raw)	TM440	112.72 54.09 : 142.61	110.66 54.09 : 142.61	119.28 54.09 : 142.61	85.18 54.09 : 142.61
EtFOSAA (Raw)	TM440	113.04 52.48 : 138.36	104.34 52.48 : 138.36	116.3 52.48 : 138.36	87.02 52.48 : 138.36
EtFOSE (Raw)	TM440	111.41 57.05 : 145.29	109.33 57.05 : 145.29	111.22 57.05 : 145.29	187.54 57.05 : 145.29
FBSA (Raw)	TM440	101.69 49.51 : 125.13	108.68 49.51 : 125.13	90.47 49.51 : 125.13	94.64 49.51 : 125.13
FHxSA (Raw)	TM440	99.16 50.38 : 132.82	106.18 50.38 : 132.82	89.1 50.38 : 132.82	94.25 50.38 : 132.82
HFPO-DA (Raw)	TM440	119.88 53.47 : 140.98	114.13 53.47 : 140.98	117.89 53.47 : 140.98	97.99 53.47 : 140.98
HFPO-TA (Raw)	TM440	257.14 44.84 : 118.21	235.29 44.84 : 118.21	274.77 44.84 : 118.21	228.55 44.84 : 118.21
L-PFOS (Raw)	TM440	112.72 54.09 : 142.61	110.66 54.09 : 142.61	119.28 54.09 : 142.61	85.18 54.09 : 142.61
MeFOSAA (Raw)	TM440	116.33 53.02 : 139.78	105.93 53.02 : 139.78	104.25 53.02 : 139.78	93.24 53.02 : 139.78
MeFOSE (Raw)	TM440	108.38 54.99 : 144.97	107.94 54.99 : 144.97	108.6 54.99 : 144.97	91.95 54.99 : 144.97
N-EtFOSA (Raw)	TM440	112.93 59.56 : 132.93	114.43 59.56 : 132.93	112.39 59.56 : 132.93	80.51 59.56 : 132.93
NFDHA (Raw)	TM440	119.75 57.35 : 151.20	108.99 57.35 : 151.20	101.31 57.35 : 151.20	92.76 57.35 : 151.20
N-MeFOSA (Raw)	TM440	110.84 59.19 : 133.01	111.23 59.19 : 133.01	106.72 59.19 : 133.01	90.13 59.19 : 133.01
PFBA (Raw)	TM440	117.14 52.69 : 138.91	109.69 52.69 : 138.91	110.74 52.69 : 138.91	98.53 52.69 : 138.91



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		QC 3277	QC 3281	QC 3280	QC 3258
PFBS (Raw)	TM440	104.64 53.31 : 140.54	108.51 53.31 : 140.54	110.66 53.31 : 140.54	90.26 53.31 : 140.54
PFDA (Raw)	TM440	116.86 53.39 : 140.76	112.09 53.39 : 140.76	113.46 53.39 : 140.76	103.19 53.39 : 140.76
PFDoA (Raw)	TM440	111.56 52.85 : 139.34	110.88 52.85 : 139.34	112.49 52.85 : 139.34	107.98 52.85 : 139.34
PFDoS (Raw)	TM440	119.49 55.29 : 145.76	113.06 55.29 : 145.76	114.1 55.29 : 145.76	92.62 55.29 : 145.76
PFDS (Raw)	TM440	124.37 52.94 : 139.56	98.91 52.94 : 139.56	106.47 52.94 : 139.56	98.41 52.94 : 139.56
PFecHS (Raw)	TM440	107.78 50.75 : 133.80	109.06 50.75 : 133.80	89.1 50.75 : 133.80	82.68 50.75 : 133.80
PFEESA (Raw)	TM440	120.14 50.87 : 134.12	108.91 50.87 : 134.12	110.31 50.87 : 134.12	93.78 50.87 : 134.12
PFHpA (Raw)	TM440	116.53 52.61 : 138.69	107.69 52.61 : 138.69	112.11 52.61 : 138.69	96.52 52.61 : 138.69
PFHpS (Raw)	TM440	111.28 55.29 : 145.76	116.66 55.29 : 145.76	128.26 55.29 : 145.76	94.71 55.29 : 145.76
PFHxA (Raw)	TM440	108.42 54.05 : 142.50	115.06 54.05 : 142.50	106.77 54.05 : 142.50	100.13 54.05 : 142.50
PFHxDA (Raw)	TM440	111.52 52.03 : 137.17	103.98 52.03 : 137.17	110.35 52.03 : 137.17	91.12 52.03 : 137.17
PFHxS (Raw)	TM440	106.44 53.56 : 141.19	103.07 53.56 : 141.19	92.5 53.56 : 141.19	85.37 53.56 : 141.19
PFMOBA (Raw)	TM440	115.89 52.73 : 139.02	100.88 52.73 : 139.02	108.94 52.73 : 139.02	92.04 52.73 : 139.02
PFMOPra (Raw)	TM440	129.15 52.57 : 138.58	116.76 52.57 : 138.58	123.96 52.57 : 138.58	109.74 52.57 : 138.58
PFNA (Raw)	TM440	112.8 52.94 : 139.56	113.95 52.94 : 139.56	108.51 52.94 : 139.56	100.12 52.94 : 139.56
PFNS (Raw)	TM440	117.24 54.38 : 143.37	105.16 54.38 : 143.37	115.3 54.38 : 143.37	93.52 54.38 : 143.37
PFOA (Raw)	TM440	120.32 53.80 : 141.85	112.45 53.80 : 141.85	110.75 53.80 : 141.85	97.82 53.80 : 141.85
PFODA (Raw)	TM440	87.33 56.03 : 147.72	97.61 56.03 : 147.72	88.42 56.03 : 147.72	89.65 56.03 : 147.72
PFOSA (Raw)	TM440	103.47 53.10 : 140.00	100.6 53.10 : 140.00	106.12 53.10 : 140.00	84.9 53.10 : 140.00
PFPA (Raw)	TM440	114.28 53.89 : 142.06	114.52 53.89 : 142.06	114.53 53.89 : 142.06	100.1 53.89 : 142.06
PFPeS (Raw)	TM440	103.07 54.30 : 143.15	106.52 54.30 : 143.15	91.62 54.30 : 143.15	89.09 54.30 : 143.15
PFTeA (Raw)	TM440	112.99 53.06 : 139.89	104.86 53.06 : 139.89	113.68 53.06 : 139.89	92.63 53.06 : 139.89
PFTrDA (Raw)	TM440	103.67 51.70 : 136.30	115.41 51.70 : 136.30	108.48 51.70 : 136.30	97.75 51.70 : 136.30
PFTrDS (Raw)	TM440	129.47 56.24 : 148.26	113.41 56.24 : 148.26	125.88 56.24 : 148.26	88.13 56.24 : 148.26
PFUnA (Raw)	TM440	111.37 53.35 : 140.65	112.92 53.35 : 140.65	115.86 53.35 : 140.65	100.72 53.35 : 140.65
PFUnDS (Raw)	TM440	121.59 53.60 : 141.30	118.53 53.60 : 141.30	107.82 53.60 : 141.30	83.96 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3274	QC 3242	QC 3214
11CI-PF3OUdS (763051-92-9)	TM434	131.13 71.39 : 130.11	98.22 62.16 : 138.51	98.8 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	78.83 53.44 : 140.89	95.94 89.89 : 130.69	107.74 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	101.14 80.71 : 134.26	97.2 66.54 : 140.56	88.57 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	76.31 64.44 : 139.44	106.31 60.34 : 133.39	97.59 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	95.51 58.31 : 142.44	89.3 59.12 : 129.56	81.94 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	94.58 73.93 : 134.90	99.48 67.48 : 129.58	96.74 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	104.4 61.23 : 140.88	112.42 79.83 : 133.08	104.63 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	115.9 82.68 : 128.35	92.13 81.70 : 132.18	100.01 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	96.47 69.20 : 147.13	106.82 71.98 : 136.03	97.76 69.20 : 147.13
ADONA (919005-14-4)	TM434	90.71 73.23 : 135.10	110.39 70.14 : 142.14	100.16 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	88.63 72.95 : 133.93	96.71 67.04 : 131.16	94.82 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	71.74 67.47 : 136.89	80.57 52.90 : 139.47	87.01 67.47 : 136.89
FBSA (30334-69-1)	TM434	87.42 63.70 : 143.28	105.58 58.08 : 137.20	109.35 63.70 : 143.28
FHxSA (41997-13-1)	TM434	113.57 63.00 : 139.73	102.79 71.81 : 148.16	100.38 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	107.71 67.58 : 142.95	92.63 57.03 : 123.70	92.99 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	99.14 60.30 : 158.96	106.92 58.05 : 153.05	90.38 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	93.05 70.63 : 141.88	93.27 69.95 : 145.18	100.33 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	94.93 75.64 : 130.69	93.4 68.44 : 128.29	91.25 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	82.19 72.41 : 131.62	80.99 70.83 : 132.00	90.45 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	62.09 57.83 : 132.08	81.09 59.26 : 122.86	90.43 57.83 : 132.08
NFDHA (151772-58-6)	TM434	99.94 57.60 : 134.40	91.88 59.99 : 133.56	98.38 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	61.4 61.69 : 135.49	75.69 62.71 : 118.96	86.47 61.69 : 135.49
PFBA (375-22-4)	TM434	96.28 74.68 : 133.63	95.34 67.84 : 130.39	86.23 74.68 : 133.63
PFBS (375-73-5)	TM434	98.53 74.09 : 133.79	111.77 90.25 : 126.25	94.56 74.09 : 133.79
PFDA (335-76-2)	TM434	97.0 72.39 : 135.76	96.46 68.94 : 132.99	93.0 72.39 : 135.76
PFDaA (307-55-1)	TM434	97.74 58.06 : 148.21	99.8 66.19 : 135.04	94.48 58.06 : 148.21
PFDoS (79780-39-5)	TM434	121.81 74.76 : 130.94	93.78 65.90 : 146.45	90.82 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3274	QC 3242	QC 3214
PFDS (335-77-3)	TM434	112.53 58.61 : 140.44	106.61 64.84 : 138.49	102.23 58.61 : 140.44
PFecHS (646-83-3)	TM434	97.1 76.93 : 133.25	111.84 81.53 : 139.35	95.23 76.93 : 133.25
PFEESA (113507-82-7)	TM434	101.39 62.25 : 138.08	112.77 67.24 : 129.19	94.19 62.25 : 138.08
PFHpA (375-85-9)	TM434	97.13 75.71 : 136.46	110.21 72.89 : 141.36	93.32 75.71 : 136.46
PFHpS (375-92-8)	TM434	92.61 76.13 : 132.38	90.39 72.19 : 155.36	102.21 76.13 : 132.38
PFHxA (307-24-4)	TM434	100.59 78.16 : 133.89	98.0 71.79 : 135.84	90.55 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	104.33 71.24 : 136.49	103.81 89.96 : 128.14	93.54 71.24 : 136.49
PFHxS (355-46-4)	TM434	92.52 73.25 : 135.20	100.12 84.41 : 134.44	94.39 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	110.9 76.41 : 130.26	108.43 84.99 : 139.74	90.41 76.41 : 130.26
PFMOPra (377-73-1)	TM434	116.19 65.74 : 128.74	103.31 80.40 : 136.73	90.0 65.74 : 128.74
PFNA (375-95-1)	TM434	105.74 75.01 : 133.06	104.75 68.61 : 128.99	90.79 75.01 : 133.06
PFNS (68259-12-1)	TM434	98.21 74.74 : 129.26	105.21 70.70 : 130.93	99.17 74.74 : 129.26
PFOA (335-67-1)	TM434	95.72 74.76 : 136.11	112.88 74.09 : 143.61	95.6 74.76 : 136.11
PFODA (16517-11-6)	TM434	90.13 53.58 : 141.25	111.51 67.60 : 178.22	109.07 53.58 : 141.25
PFOSA (754-91-6)	TM434	97.08 76.54 : 135.04	95.33 67.59 : 130.51	89.47 76.54 : 135.04
PFPA (2706-90-3)	TM434	103.96 77.89 : 134.66	106.61 74.20 : 140.58	92.34 77.89 : 134.66
PFPeS (2706-91-4)	TM434	89.47 69.49 : 132.71	119.55 76.19 : 137.91	96.03 69.49 : 132.71
PFTeA (376-06-7)	TM434	97.05 61.66 : 143.71	108.16 66.36 : 144.96	89.92 61.66 : 143.71
PFTrDA (72629-94-8)	TM434	119.95 67.04 : 136.04	92.29 71.98 : 130.25	98.49 67.04 : 136.04
PFTrDS (791563-89-8)	TM434	121.44 76.88 : 133.35	97.72 68.38 : 157.48	95.38 76.88 : 133.35
PFUnA (2058-94-8)	TM434	96.79 70.21 : 138.54	94.57 65.55 : 141.45	91.62 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	126.17 71.45 : 127.25	97.68 85.84 : 139.76	94.36 71.45 : 127.25

pH

Component	Method Code	QC 3250	QC 3252	QC 3254	QC 3286	QC 3289	QC 3291
pH	TM133	104.03 95.29 : 105.24	103.33 95.29 : 105.24	104.24 95.29 : 105.24	103.7 95.29 : 105.24	100.83 96.39 : 106.35	101.58 96.39 : 106.35



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pH

Component	Method Code	QC 3295
pH	TM133	102.3 96.39 : 106.35

Total Organic Carbon

Component	Method Code	QC 3253	QC 3255	QC 3257	QC 3220	QC 3200	QC 3267
Total Organic Carbon	TM132	97.42 93.61 : 106.00	97.33 93.61 : 106.00	95.26 93.61 : 106.00	95.15 93.61 : 106.00	98.22 93.61 : 106.00	96.67 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.



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WSP UK Limited
8 First Street
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M15 4RP

Attention: Wesley Graeme1

CERTIFICATE OF ANALYSIS

Date of report Generation:	18 December 2025
Customer:	WSP UK Limited
Sample Delivery Group (SDG):	251122-24
Your Reference:	UK-70100310
Location:	Thornton Phase 3
Report No:	786519
Order Number:	UK-70100310

This report has been revised and directly supersedes 784694 in its entirety.

We received 57 samples on Saturday November 22, 2025 and 57 of these samples were scheduled for analysis which was completed on Thursday December 18, 2025. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32498059	GR03-SP318-A	ESALS	0.10 - 0.20	18/11/2025
32497923	GR03-SP318-A	ES	0.20 - 0.30	18/11/2025
32497926	GR03-SP318-A	ES	0.50 - 0.60	18/11/2025
32497973	GR04-SP422-A	ES	0.10 - 0.20	18/11/2025
32497976	GR04-SP422-A	ES	0.20 - 0.30	18/11/2025
32497978	GR04-SP422-A	ES	0.50 - 0.60	18/11/2025
32497980	GR04-SP422-B	ES	0.00 - 0.10	18/11/2025
32497982	GR04-SP422-B	ES	0.20 - 0.30	18/11/2025
32497984	GR04-SP422-B	ES	0.40 - 0.50	18/11/2025
32497929	GR03-SP318-B-S1	ES	0.00 - 0.10	18/11/2025
32497999	GR03-SP318-B-S1	WS	0.00 - 0.50	18/11/2025
32497910	GR03-SP318-B-S1	ESA1	0.20 - 0.30	18/11/2025
32497902	GR03-SP318-B-S1	ESA2	0.20 - 0.30	18/11/2025
32497931	GR03-SP318-B-S1	ES	0.40 - 0.50	18/11/2025
32497904	GR03-SP318-B-S2	ESA2	0.20 - 0.30	18/11/2025
32497914	GR03-SP318-B-S2	ESA1	0.20 - 0.30	18/11/2025
32497933	GR03-SP318-C	ES	0.10 - 0.20	18/11/2025
32497935	GR03-SP318-C	ES	0.30 - 0.40	18/11/2025
32497938	GR03-SP318-C	ES	0.50 - 0.60	18/11/2025
32497986	GR04-SP422-C	ES	0.10 - 0.20	18/11/2025
32497989	GR04-SP422-C	ES	0.30 - 0.40	18/11/2025
32497942	GR04-SP422-C	WT	0.30 - 0.40	18/11/2025
32498067	GR04-SP422-C	ESALS	0.50 - 0.60	18/11/2025
32497940	GR03-SP318-D	ES	0.00 - 0.10	18/11/2025
32497887	GR03-SP318-D	WT	0.00 - 0.10	18/11/2025
32497946	GR03-SP318-D	ES	0.30 - 0.40	18/11/2025
32497948	GR03-SP318-D	ES	0.40 - 0.50	18/11/2025
32497950	GR03-SP318-E	ES	0.10 - 0.20	18/11/2025
32497953	GR03-SP318-E	ES	0.20 - 0.30	18/11/2025
32498063	GR03-SP318-E	ESALS	0.50 - 0.60	18/11/2025
32497916	GR03-SP318-E	WT	0.50 - 0.60	18/11/2025
32497955	GR03-SP318-F	ES	0.00 - 0.10	18/11/2025
32497957	GR03-SP318-F	ES	0.20 - 0.30	18/11/2025
32497959	GR03-SP318-F	ES	0.40 - 0.50	18/11/2025
32497961	GR03-SP318-G	ES	0.10 - 0.20	18/11/2025
32497964	GR03-SP318-G	ES	0.30 - 0.40	18/11/2025
32497967	GR03-SP318-G	ES	0.50 - 0.60	18/11/2025
32497991	POUL-SP511-A	ES	0.10 - 0.20	18/11/2025
32497890	POUL-SP511-A	ESALS	0.20 - 0.30	18/11/2025
32497994	POUL-SP511-A	ES	0.50 - 0.60	18/11/2025
32498008	POUL-SP511-B	ES	0.00 - 0.10	18/11/2025
32498013	POUL-SP511-B	ES	0.20 - 0.30	18/11/2025
32497893	POUL-SP511-B	ESALS	0.40 - 0.50	18/11/2025
32497970	POUL-SP511-C-S1	WT	0.10 - 0.20	18/11/2025
32498019	POUL-SP511-C-S1	ES	0.10 - 0.20	18/11/2025
32497919	POUL-SP511-C-S1	ESA1	0.30 - 0.40	18/11/2025
32497906	POUL-SP511-C-S1	ESA2	0.30 - 0.40	18/11/2025
32498024	POUL-SP511-C-S1	ES	0.50 - 0.60	18/11/2025
32497921	POUL-SP511-C-S2	ESA1	0.30 - 0.40	18/11/2025
32497908	POUL-SP511-C-S2	ESA2	0.30 - 0.40	18/11/2025
32497896	POUL-SP511-D	ESALS	0.00 - 0.10	18/11/2025
32498030	POUL-SP511-D	ES	0.30 - 0.40	18/11/2025
32498035	POUL-SP511-D	ES	0.40 - 0.50	18/11/2025
32498052	POUL-SP511-E	WS	0.00 - 0.60	18/11/2025
32497899	POUL-SP511-E	ESALS	0.10 - 0.20	18/11/2025
32498040	POUL-SP511-E	ES	0.20 - 0.30	18/11/2025
32498048	POUL-SP511-E	ES	0.50 - 0.60	18/11/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24	Report Number: 786519	Superseded Report: 784694
Client Ref.: UK-70100310	Location: Thornton Phase 3	

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32497938	GR03-SP318-C	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32497935	GR03-SP318-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32497933	GR03-SP318-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32497914	GR03-SP318-B-S2	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32497904	GR03-SP318-B-S2	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32497931	GR03-SP318-B-S1	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32497902	GR03-SP318-B-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32497910	GR03-SP318-B-S1	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32497999	GR03-SP318-B-S1	WS	0.00 - 0.50	50ml digtub (ALE001)	PW						
	32497929	GR03-SP318-B-S1	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32497984	GR04-SP422-B	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32497982	GR04-SP422-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32497980	GR04-SP422-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32497978	GR04-SP422-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32497976	GR04-SP422-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
pH	32497973	GR04-SP422-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32497926	GR03-SP318-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32497923	GR03-SP318-A	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32498059	GR03-SP318-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
Sample description												
Total Organic Carbon												

32497994	POUL-SP511-A	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497890	POUL-SP511-A	ESALS	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497991	POUL-SP511-A	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497967	GR03-SP318-G	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497964	GR03-SP318-G	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497961	GR03-SP318-G	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497959	GR03-SP318-F	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497957	GR03-SP318-F	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497955	GR03-SP318-F	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497916	GR03-SP318-E	WT	0.50 - 0.60	50ml digitube (ALE001)	PW		X						
32498063	GR03-SP318-E	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X				X
32497953	GR03-SP318-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S	X			X				X
32497950	GR03-SP318-E	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X				X
32497948	GR03-SP318-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497946	GR03-SP318-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497887	GR03-SP318-D	WT	0.00 - 0.10	50ml digitube (ALE001)	PW		X						
32497940	GR03-SP318-D	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S	X			X				X
32498067	GR04-SP422-C	ESALS	0.50 - 0.60	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497942	GR04-SP422-C	WT	0.30 - 0.40	50ml digitube (ALE001)	PW		X						
32497989	GR04-SP422-C	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S	X			X		X		X
32497986	GR04-SP422-C	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S	X			X		X		X



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend

X Test
N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container		Sample Type	
	32498048	POUL-SP511-E	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32498040	POUL-SP511-E	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32497899	POUL-SP511-E	ESALS	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32498052	POUL-SP511-E	WS	0.00 - 0.60	50ml digitube (ALE001)	PW						
	32498035	POUL-SP511-D	ES	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
PFAS in soils	32498030	POUL-SP511-D	ES	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32497896	POUL-SP511-D	ESALS	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
	32497908	POUL-SP511-C-S2	ESAL2	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32497921	POUL-SP511-C-S2	ESA1	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32498024	POUL-SP511-C-S1	ES	0.50 - 0.60	1kg TUB with Handle (ALE260)	S						
	32497906	POUL-SP511-C-S1	ESA2	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
PFAS Liquids (Full Suite)	32497919	POUL-SP511-C-S1	ESA1	0.30 - 0.40	1kg TUB with Handle (ALE260)	S						
	32498019	POUL-SP511-C-S1	ES	0.10 - 0.20	1kg TUB with Handle (ALE260)	S						
	32497970	POUL-SP511-C-S1	WT	0.10 - 0.20	50ml digitube (ALE001)	PW						
	32497893	POUL-SP511-B	ESALS	0.40 - 0.50	1kg TUB with Handle (ALE260)	S						
	32498013	POUL-SP511-B	ES	0.20 - 0.30	1kg TUB with Handle (ALE260)	S						
	32498008	POUL-SP511-B	ES	0.00 - 0.10	1kg TUB with Handle (ALE260)	S						
pH												
Sample description												
Total Organic Carbon												



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
32497923	GR03-SP318-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497926	GR03-SP318-A	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	Vegetation
32498059	GR03-SP318-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497973	GR04-SP422-A	0.10 - 0.20	Light Brown	Silt Loam	Stones	Vegetation
32497976	GR04-SP422-A	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497978	GR04-SP422-A	0.50 - 0.60	Light Brown	Clay Loam	Brick	Stones
32497980	GR04-SP422-B	0.00 - 0.10	Light Brown	Silt Loam	Stones	Vegetation
32497982	GR04-SP422-B	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497984	GR04-SP422-B	0.40 - 0.50	Light Brown	Silty Clay Loam	Brick	Vegetation
32497902	GR03-SP318-B-S1	0.20 - 0.30	Dark Brown	Silty Clay Loam	Vegetation	None
32497910	GR03-SP318-B-S1	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497929	GR03-SP318-B-S1	0.00 - 0.10	Dark Brown	Silty Clay Loam	Vegetation	None
32497931	GR03-SP318-B-S1	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497904	GR03-SP318-B-S2	0.20 - 0.30	Dark Brown	Silty Clay	Vegetation	Stones
32497914	GR03-SP318-B-S2	0.20 - 0.30	Dark Brown	Silty Clay	Stones	Vegetation
32497933	GR03-SP318-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497935	GR03-SP318-C	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497938	GR03-SP318-C	0.50 - 0.60	Dark Brown	Silty Clay	Stones	Vegetation
32497986	GR04-SP422-C	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497989	GR04-SP422-C	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Crushed Brick
32498067	GR04-SP422-C	0.50 - 0.60	Dark Brown	Silty Clay Loam	Stones	None
32497940	GR03-SP318-D	0.00 - 0.10	Light Brown	Silt Loam	Fibres	Stones
32497946	GR03-SP318-D	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497948	GR03-SP318-D	0.40 - 0.50	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497950	GR03-SP318-E	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497953	GR03-SP318-E	0.20 - 0.30	Light Brown	Silt Loam	Concrete/Aggregate	Stones
32498063	GR03-SP318-E	0.50 - 0.60	Light Brown	Silty Clay	Concrete/Aggregate	Stones
32497955	GR03-SP318-F	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497957	GR03-SP318-F	0.20 - 0.30	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32497959	GR03-SP318-F	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Stones
32497961	GR03-SP318-G	0.10 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32497964	GR03-SP318-G	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497967	GR03-SP318-G	0.50 - 0.60	Dark Brown	Sandy Clay Loam	Stones	Vegetation
32497890	POUL-SP511-A	0.20 - 0.30	Dark Brown	Loamy Sand	Stones	Vegetation
32497991	POUL-SP511-A	0.10 - 0.20	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497994	POUL-SP511-A	0.50 - 0.60	Light Brown	Silty Clay	Stones	Vegetation
32497893	POUL-SP511-B	0.40 - 0.50	Dark Brown	Sandy Clay Loam	Vegetation	Stones
32498008	POUL-SP511-B	0.00 - 0.10	Dark Brown	Silty Clay Loam	Stones	Vegetation
32498013	POUL-SP511-B	0.20 - 0.30	Dark Brown	Silt Loam	Stones	Vegetation



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

			Colour	Description	Inclusions	Inclusions 2
32497906	POUL-SP511-C-S1	0.30 - 0.40	Light Brown	Silt Loam	Stones	Vegetation
32497919	POUL-SP511-C-S1	0.30 - 0.40	Dark Brown	Silt Loam	Stones	Plastic
32498019	POUL-SP511-C-S1	0.10 - 0.20	Dark Brown	Silt Loam	Plastic	Stones
32498024	POUL-SP511-C-S1	0.50 - 0.60	Light Brown	Silty Clay	Vegetation	None
32497908	POUL-SP511-C-S2	0.30 - 0.40	Light Brown	Silt Loam	Stones	Vegetation
32497921	POUL-SP511-C-S2	0.30 - 0.40	Dark Brown	Silty Clay Loam	Stones	Vegetation
32497896	POUL-SP511-D	0.00 - 0.10	Dark Brown	Loamy Sand	Vegetation	Stones
32498030	POUL-SP511-D	0.30 - 0.40	Dark Brown	Loamy Sand	Stones	Vegetation
32498035	POUL-SP511-D	0.40 - 0.50	Dark Brown	Silty Clay Loam	Vegetation	None
32497899	POUL-SP511-E	0.10 - 0.20	Dark Brown	Silty Clay Loam	Vegetation	Stones
32498040	POUL-SP511-E	0.20 - 0.30	Dark Brown	Silty Clay Loam	Stones	Vegetation
32498048	POUL-SP511-E	0.50 - 0.60	Dark Brown	Silty Clay Loam	Vegetation	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP318-A	GR03-SP318-A	GR03-SP318-A	GR04-SP422-A	GR04-SP422-A	GR04-SP422-A
# ISO17025 accredited.				0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
M mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq Aqueous / settled sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	17	18	19	21	18	19	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.27	1.63	1.78	3.24	2.48	6.05	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	8.09	8.31	8.04	8.09	8.58	7.99	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.64	3.23	6.81	3.86	1.73	1.58	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	1.3	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR04-SP422-B	GR04-SP422-B	GR04-SP422-B	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt	Dissolved / filtered sample.				22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
tot.unfilt	Total / unfiltered sample.				251122-24	251122-24	251122-24	251122-24	32497999	251122-24
* Subcontracted - refer to subcontractor report for accreditation status.					32497980	32497982	32497984	32497929	WS	32497910
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES		ESA1
*** 6:2 FTAB (see appendix)										
1-4*§@Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.004	
PFMOPra (377-73-1)	<0.001 µg/l	TM434							<0.002	
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.01	
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.002	
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.002	
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.002	
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.006	
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.002	
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.002	
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.004	
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.002	
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.002	
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.002	
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.01	
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.002	
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.002	
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.002	
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.0013	
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.002	
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.002	
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.002	
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.004	
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.01	
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.004	
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.004	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.01	
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.0013	
Branched PFOS	<0.00065 µg/l	TM434							<0.0013	
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.004	
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.004	
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.002	
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.002	
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.002	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR04-SP422-B	GR04-SP422-B	GR04-SP422-B	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.00 - 0.10	0.00 - 0.50	0.20 - 0.30
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)
aq	Aqueous / settled sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt	Dissolved / filtered sample.				22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
tot.unfilt	Total / unfiltered sample.				251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
* Subcontracted - refer to subcontractor report for accreditation status.					32497980	32497982	32497984	32497929	32497999	32497910
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	ES	WS	ESA1
*** 6:2 FTAB (see appendix)										
1-4*5@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434							<0.004	
PFDS (335-77-3)	<0.002 µg/l	TM434							<0.004	
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434							<0.006	
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434							<0.004	@
PFUnDS (749786-16-1)	<0.002 µg/l	TM434							<0.004	@
PFTeA (376-06-7)	<0.001 µg/l	TM434							<0.002	
PFOSA (754-91-6)	<0.002 µg/l	TM434							<0.004	
PFDoS (79780-39-5)	<0.002 µg/l	TM434							<0.004	
PFHxDA (67905-19-5)	<0.001 µg/l	TM434							<0.002	
MeFOSE (24448-09-7)	<0.01 µg/l	TM434							<0.02	@
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434							<0.002	@
EtFOSE (1691-99-2)	<0.01 µg/l	TM434							<0.02	@
PFODA (16517-11-6)	<0.001 µg/l	TM434							<0.002	@
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434							<0.002	@
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434							<0.02	
Total PFOS	<0.00065 µg/l	TM434							<0.0013	
PFechS (646-83-3)	<0.001 µg/l	TM434							<0.002	@
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434							<0.002	@
Moisture Content Ratio (% of as received sample)	%	PM024	28	18	20	30				19
Soil Organic Matter (SOM)	<0.35 %	TM132	5.43 #	1.28 #	2.29 #	5.14 #				1.54 #
pH	1 pH Units	TM133	7.2 M	8.39 M	8.46 M	6.74 M				8.41 M
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8				<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8				<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1				<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5				<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	GR04-SP422-B	GR04-SP422-B	GR04-SP422-B	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.00 - 0.10 Soil/Solid (S) 18/11/2025	0.20 - 0.30 Soil/Solid (S) 18/11/2025	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.00 - 0.10 Soil/Solid (S) 18/11/2025	0.00 - 0.50 Process Water (PR) 18/11/2025	0.20 - 0.30 Soil/Solid (S) 18/11/2025
m	mCERTS accredited.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5		<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440		4.09	2.83	2.82	3.73		2.27
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10		<10
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9		<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4		<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		1.22	<0.6	<0.6	<0.6		<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5		<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4	<1.4		<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8		<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6		<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7	<0.7		<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5		<0.5

12:39:00 18/12/2025



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S2	GR03-SP318-B-S2	GR03-SP318-C	GR03-SP318-C
# ISO17025 accredited.	M mCERTS accredited.	Depth (m)		0.20 - 0.30	0.40 - 0.50	0.20 - 0.30	0.20 - 0.30	0.10 - 0.20	0.30 - 0.40
AQ Aqueous / settled sample.		Sample Type		Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
diss.filt Dissolved / filtered sample.		Date Sampled		18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
tot.unfilt Total / unfiltered sample.		Sample Time							
* Subcontracted - refer to subcontractor report for accreditation status.		Date Received		22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		SDG Ref	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	
*** 6:2 FTAB (see appendix)		Lab Sample No.(s)	32497902	32497931	32497904	32497914	32497933	32497935	
1-4*§@ Sample deviation (see appendix)		AGS Reference	ESA2	ES	ESA2	ESA1	ES	ES	
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	19	19	21	19	26	21	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.55	1.36	1.48	1.4	3.43	1.47	
			#	#	#	#	#	#	
pH	1 pH Units	TM133	8.03	8.47	8.17	8.36	7.87	8.12	
			M	M	M	M	M	M	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	2.88	3.35	1.82	2.1	2.27	2.97	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR03-SP318-C	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR03-SP318-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt	Dissolved / filtered sample.				22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
tot.unfilt	Total / unfiltered sample.				251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
* Subcontracted - refer to subcontractor report for accreditation status.					32497938	32497986	32497989	32497942	32498067	32497940
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ES	ES	ES	WT	ESALS	ES
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434						<0.002		
PFMOPra (377-73-1)	<0.001 µg/l	TM434						<0.001		
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434						<0.005		
PFPA (2706-90-3)	<0.001 µg/l	TM434						<0.001		
PFMOBA (863090-89-5)	<0.001 µg/l	TM434						<0.001		
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434						<0.001		
NFDHA (151772-58-6)	<0.003 µg/l	TM434						<0.003		
PFBS (375-73-5)	<0.001 µg/l	TM434						<0.001		
PFHxA (307-24-4)	<0.001 µg/l	TM434						<0.001		
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434						<0.002		
PFEESA (113507-82-7)	<0.001 µg/l	TM434						<0.001		
PFHpA (375-85-9)	<0.001 µg/l	TM434						<0.001		
PFPeS (2706-91-4)	<0.001 µg/l	TM434						<0.001		
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434						<0.005		
ADONA (919005-14-4)	<0.001 µg/l	TM434						<0.001		
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434						<0.001		
FBSA (30334-69-1)	<0.001 µg/l	TM434						<0.001		
PFOA (335-67-1)	<0.00065 µg/l	TM434						<0.00065		
PFHxS (355-46-4)	<0.001 µg/l	TM434						<0.001		
PFNA (375-95-1)	<0.001 µg/l	TM434						<0.001		
PFHpS (375-92-8)	<0.001 µg/l	TM434						<0.001		
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434						<0.002		
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434						<0.005		
PFDA (335-76-2)	<0.002 µg/l	TM434						<0.002		
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434						<0.002	@	
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434						<0.005		
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434						<0.00065		
Branched PFOS	<0.00065 µg/l	TM434						<0.00065		
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434						<0.002	@	
PFUnA (2058-94-8)	<0.002 µg/l	TM434						<0.002		
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434						<0.001		
PFNS (68259-12-1)	<0.001 µg/l	TM434						<0.001		
FHxSA (41997-13-1)	<0.001 µg/l	TM434						<0.001		



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	GR03-SP318-C	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR03-SP318-D
#	ISO17025 accredited.			0.50 - 0.60	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10
M	mCERTS accredited.			Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.			22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
*	Subcontracted - refer to subcontractor report for accreditation status.			251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery			32497938	32497986	32497989	32497942	32498067	32497940
***	6:2 FTAB (see appendix)			ES	ES	ES	WT	ESALS	ES
1-4**	@Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434				<0.002			
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002			
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003			
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434				<0.002			
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002			
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001			
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002			
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002			
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001			
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01			
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434				<0.001			
EtFOSE (1691-99-2)	<0.01 µg/l	TM434				<0.01			
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001			
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434				<0.001			
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01			
Total PFOS	<0.00065 µg/l	TM434				<0.00065			
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001			
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001			
Moisture Content Ratio (% of as received sample)	%	PM024	18	24	17		16	31	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.36	3.83	2.91		5.03	4.81	
pH	1 pH Units	TM133	8.24	7.42	8.52		8.59	7.52	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8		<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8		<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1		<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5		<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR03-SP318-C	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR03-SP318-D
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50 - 0.60 Soil/Solid (S) 18/11/2025	0.10 - 0.20 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Process Water (PR) 18/11/2025	0.50 - 0.60 Soil/Solid (S) 18/11/2025	0.00 - 0.10 Soil/Solid (S) 18/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
*** 6:2 FTAB (see appendix)					32497938	32497986	32497989	32497942	32498067	32497940
1-4* @ Sample deviation (see appendix)					ES	ES	ES	WT	ESALS	ES
Component	LOD/Units	Method								
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			4.32	5.39	2.37		1.73	3.9
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10		<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9		<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4		<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	1.1	<0.6		<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5		<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4		<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8		<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6		<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7		<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5		<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR03-SP318-D	GR03-SP318-D	GR03-SP318-D	GR03-SP318-E	GR03-SP318-E	GR03-SP318-E
# ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	M mCERTS accredited.	0.00 - 0.10 Process Water (PR) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.10 - 0.20 Soil/Solid (S) 18/11/2025	0.20 - 0.30 Soil/Solid (S) 18/11/2025	0.50 - 0.60 Soil/Solid (S) 18/11/2025		
aq Aqueous / settled sample.										
diss.filt Dissolved / filtered sample.										
tot.unfilt Total / unfiltered sample.										
* Subcontracted - refer to subcontractor report for accreditation status.										
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	22/11/2025 251122-24 32497887 WT	22/11/2025 251122-24 32497946 ES	22/11/2025 251122-24 32497950 ES	22/11/2025 251122-24 32497953 ES	22/11/2025 251122-24 32498063 ESALS					
*** 6:2 FTAB (see appendix)										
1-4*§@ Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002	@						
PFMOPra (377-73-1)	<0.001 µg/l	TM434	<0.001	@						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005	@						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001	@						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001	@						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001	@						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003	@						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001	@						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001	@						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002	@						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001	@						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001	@						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001	@						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005	@						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001	@						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001	@						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001	@						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065	@						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001	@						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001	@						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001	@						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002	@						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005	@						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002	@						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@						
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005	@						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065	@						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065	@						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@						
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002	@						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001	@						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001	@						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001	@						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref. Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	GR03-SP318-D	GR03-SP318-D	GR03-SP318-D	GR03-SP318-E	GR03-SP318-E	GR03-SP318-E
#	ISO17025 accredited.			0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60
m	mCERTS accredited.			Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
aq	Aqueous / settled sample.			18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method							
PFDoA (307-55-1)	<0.002 µg/l	TM434	<0.002	@					
PFDS (335-77-3)	<0.002 µg/l	TM434	<0.002	@					
PFTrDA (72629-94-8)	<0.003 µg/l	TM434	<0.003	@					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434	<0.002	@					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434	<0.002	@					
PFTeA (376-06-7)	<0.001 µg/l	TM434	<0.001	@					
PFOSA (754-91-6)	<0.002 µg/l	TM434	<0.002	@					
PFDoS (79780-39-5)	<0.002 µg/l	TM434	<0.002	@					
PFHxDA (67905-19-5)	<0.001 µg/l	TM434	<0.001	@					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434	<0.01	@					
N-MeFOSA (31506-32-8)	<0.001 µg/l	TM434	<0.001	@					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434	<0.01	@					
PFODA (16517-11-6)	<0.001 µg/l	TM434	<0.001	@					
N-EtFOSA (4151-50-2)	<0.001 µg/l	TM434	<0.001	@					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434	<0.01						
Total PFOS	<0.00065 µg/l	TM434	<0.00065	@					
Total PFAS DWI 47	<0.09 µg/l	TM434	<0.09						
PFecHS (646-83-3)	<0.001 µg/l	TM434	<0.001	@					
PFTrDS (791563-89-8)	<0.001 µg/l	TM434	<0.001	@					
Moisture Content Ratio (% of as received sample)	%	PM024			28	21	22	24	20
Soil Organic Matter (SOM)	<0.35 %	TM132			4.03 #	1.74 #	3.24 #	3.31 #	1.97 #
pH	1 pH Units	TM133			7.84 M	8.4 M	8.28 M	7.78 M	8.21 M
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR03-SP318-D	GR03-SP318-D	GR03-SP318-D	GR03-SP318-E	GR03-SP318-E	GR03-SP318-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.00 - 0.10 Process Water (PR) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.10 - 0.20 Soil/Solid (S) 18/11/2025	0.20 - 0.30 Soil/Solid (S) 18/11/2025	0.50 - 0.60 Soil/Solid (S) 18/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
*** 6:2 FTAB (see appendix)					32497887	32497946	32497948	32497950	32497953	32498063
1-4* @ Sample deviation (see appendix)					WT	ES	ES	ES	ES	ESALS
Component	LOD/Units	Method								
PFHpA (375-85-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440				4.48	3.45	2.94	2.95	3.15
PFHxS (355-46-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440				<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440				<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440				<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440				<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440				<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440				<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440				<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	GR03-SP318-E	GR03-SP318-F	GR03-SP318-F	GR03-SP318-F	GR03-SP318-G	GR03-SP318-G
# ISO17025 accredited. M mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfiltTotal / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4*§@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Process Water (PR) 18/11/2025 22/11/2025 251122-24 32497916 WT	0.00 - 0.10 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497955 ES	0.20 - 0.30 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497957 ES	0.40 - 0.50 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497959 ES	0.10 - 0.20 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497961 ES	0.30 - 0.40 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497964 ES
Component	LOD/Units	Method							
PFBA (375-22-4)	<0.002 µg/l	TM434	<0.002						
PFMOPrA (377-73-1)	<0.001 µg/l	TM434	<0.001						
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434	<0.005						
PFPA (2706-90-3)	<0.001 µg/l	TM434	<0.001						
PFMOBA (863090-89-5)	<0.001 µg/l	TM434	<0.001						
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434	<0.001						
NFDHA (151772-58-6)	<0.003 µg/l	TM434	<0.003						
PFBS (375-73-5)	<0.001 µg/l	TM434	<0.001						
PFHxA (307-24-4)	<0.001 µg/l	TM434	<0.001						
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434	<0.002						
PFEESA (113507-82-7)	<0.001 µg/l	TM434	<0.001						
PFHpA (375-85-9)	<0.001 µg/l	TM434	<0.001						
PFPeS (2706-91-4)	<0.001 µg/l	TM434	<0.001						
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434	<0.005						
ADONA (919005-14-4)	<0.001 µg/l	TM434	<0.001						
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434	<0.001						
FBSA (30334-69-1)	<0.001 µg/l	TM434	<0.001						
PFOA (335-67-1)	<0.00065 µg/l	TM434	<0.00065						
PFHxS (355-46-4)	<0.001 µg/l	TM434	<0.001						
PFNA (375-95-1)	<0.001 µg/l	TM434	<0.001						
PFHpS (375-92-8)	<0.001 µg/l	TM434	<0.001						
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434	<0.002						
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434	<0.005						
PFDA (335-76-2)	<0.002 µg/l	TM434	<0.002						
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434	<0.002	@					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434	<0.005						
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434	<0.00065						
Branched PFOS	<0.00065 µg/l	TM434	<0.00065						
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434	<0.002	@					
PFUnA (2058-94-8)	<0.002 µg/l	TM434	<0.002						
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434	<0.001						
PFNS (68259-12-1)	<0.001 µg/l	TM434	<0.001						
FHxSA (41997-13-1)	<0.001 µg/l	TM434	<0.001						



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		GR03-SP318-E	GR03-SP318-F	GR03-SP318-F	GR03-SP318-F	GR03-SP318-G	GR03-SP318-G
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.50 - 0.60 Process Water (PR) 18/11/2025	0.00 - 0.10 Soil/Solid (S) 18/11/2025	0.20 - 0.30 Soil/Solid (S) 18/11/2025	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.10 - 0.20 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
*** 6:2 FTAB (see appendix)					32497916	32497955	32497957	32497959	32497961	32497964
1-4*§@ Sample deviation (see appendix)					WT	ES	ES	ES	ES	ES
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434			<0.002					
PFDS (335-77-3)	<0.002 µg/l	TM434			<0.002					
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434			<0.003					
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434			<0.002					
PFUnDS (749786-16-1)	<0.002 µg/l	TM434			<0.002					
PFTeA (376-06-7)	<0.001 µg/l	TM434			<0.001					
PFOSA (754-91-6)	<0.002 µg/l	TM434			<0.002					
PFDoS (79780-39-5)	<0.002 µg/l	TM434			<0.002					
PFHxDa (67905-19-5)	<0.001 µg/l	TM434			<0.001					
MeFOSE (24448-09-7)	<0.01 µg/l	TM434			<0.01					
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434			<0.001					
EtFOSE (1691-99-2)	<0.01 µg/l	TM434			<0.01					
PFODA (16517-11-6)	<0.001 µg/l	TM434			<0.001					
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434			<0.001					
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434			<0.01					
Total PFOS	<0.00065 µg/l	TM434			<0.00065					
PFecHS (646-83-3)	<0.001 µg/l	TM434			<0.001					
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434			<0.001					
Moisture Content Ratio (% of as received sample)	%	PM024				16	10	17	19	12
Soil Organic Matter (SOM)	<0.35 %	TM132				1.67	1.01	1.52	4.29	1.2
pH	1 pH Units	TM133				8.27	8.39	8.33	8.24	8.39
PFBA (375-22-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPra (377-73-1)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440				<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440				<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440				<1	<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440				<0.5	<0.5	<0.5	<0.5	<0.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	GR03-SP318-E	GR03-SP318-F	GR03-SP318-F	GR03-SP318-F	GR03-SP318-G	GR03-SP318-G
#	ISO17025 accredited.	m							
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted - refer to subcontractor report for accreditation status.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
***	6:2 FTAB (see appendix)								
1-4**@	Sample deviation (see appendix)								
Component	LOD/Units	Method	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 - 0.60 Process Water (PR) 18/11/2025 22/11/2025 251122-24 32497916 WT	0.00 - 0.10 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497955 ES	0.20 - 0.30 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497957 ES	0.40 - 0.50 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497959 ES	0.10 - 0.20 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497961 ES	0.30 - 0.40 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497964 ES
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	<0.5 µg/kg	TM440			1.06	1.26	5.07	2.01	1.76
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10	<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5

CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	GR03-SP318-G	POUL-SP511-A	POUL-SP511-A	POUL-SP511-A	POUL-SP511-B	POUL-SP511-B
# ISO17025 accredited.	M mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference							
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfilt Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)	6:2 FTAB (see appendix)								
1-4*§@ Sample deviation (see appendix)									
Component	LOD/Units	Method							
Moisture Content Ratio (% of as received sample)	%	PM024	18	27	21	18	23	23	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.4	12.6	12.9	2.14	9.93	11.4	
pH	1 pH Units	TM133	8.18	6.74	7.84	7.88	5.9	6.24	
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	0.655	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440	1.95	2.3	3.27	1.06	3.02	3.49	
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	<0.6	2.33	1.07	<0.6	1.36	1.49	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		POUL-SP511-B	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1
# ISO17025 accredited.	M mCERTS accredited.	aq Aqueous / settled sample.	Depth (m)	0.40 - 0.50	0.10 - 0.20	0.10 - 0.20	0.30 - 0.40	0.30 - 0.40	0.50 - 0.60	
diss.filt Dissolved / filtered sample.	tot.unfilt Total / unfiltered sample.	Subcontracted - refer to subcontractor report for accreditation status.	Sample Type	Soil/Solid (S)	Process Water (PR)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	
		% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Date Sampled	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	
		6:2 FTAB (see appendix)	Date Received	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	
1-4**@ Sample deviation (see appendix)		SDG Ref	SDG Ref	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	
		Lab Sample No.(s)	Lab Sample No.(s)	32497893	32497970	32498019	32497919	32497906	32498024	
		AGS Reference	AGS Reference	ESALS	WT	ES	ESA1	ESA2	ES	
Component	LOD/Units	Method								
PFBA (375-22-4)	<0.002 µg/l	TM434			<0.002					
PfMOPra (377-73-1)	<0.001 µg/l	TM434			<0.001					
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434			<0.005					
PFPA (2706-90-3)	<0.001 µg/l	TM434			<0.001					
PfMOBA (863090-89-5)	<0.001 µg/l	TM434			<0.001					
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434			<0.001					
NFDHA (151772-58-6)	<0.003 µg/l	TM434			<0.003					
PFBS (375-73-5)	<0.001 µg/l	TM434			<0.001					
PFHxA (307-24-4)	<0.001 µg/l	TM434			<0.001					
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434			<0.002					
PFEESA (113507-82-7)	<0.001 µg/l	TM434			<0.001					
PFHpA (375-85-9)	<0.001 µg/l	TM434			<0.001					
PFPeS (2706-91-4)	<0.001 µg/l	TM434			<0.001					
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434			<0.005					
ADONA (919005-14-4)	<0.001 µg/l	TM434			<0.001					
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434			<0.001					
FBSA (30334-69-1)	<0.001 µg/l	TM434			<0.001					
PFOA (335-67-1)	<0.00065 µg/l	TM434			<0.00065					
PFHxS (355-46-4)	<0.001 µg/l	TM434			<0.001					
PFNA (375-95-1)	<0.001 µg/l	TM434			<0.001					
PFHpS (375-92-8)	<0.001 µg/l	TM434			<0.001					
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434			<0.002					
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434			0.0083					
PFDA (335-76-2)	<0.002 µg/l	TM434			<0.002					
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434			<0.002					
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434			<0.005					
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434			<0.00065					
Branched PFOS	<0.00065 µg/l	TM434			<0.00065					
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434			<0.002					
PFUnA (2058-94-8)	<0.002 µg/l	TM434			<0.002					
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434			<0.001					
PFNS (68259-12-1)	<0.001 µg/l	TM434			<0.001					
FHxSA (41997-13-1)	<0.001 µg/l	TM434			<0.001					



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		POUL-SP511-B	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1
# ISO17025 accredited. m mCERTS accredited. aq Aqueous / settled sample. diss.filt Dissolved / filtered sample. tot.unfilt Total / unfiltered sample. * Subcontracted - refer to subcontractor report for accreditation status. ** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery *** 6:2 FTAB (see appendix) 1-4-@ Sample deviation (see appendix)			Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40 - 0.50 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497893 ESALS	0.10 - 0.20 Process Water (PR) 18/11/2025 22/11/2025 251122-24 32497970 WT	0.10 - 0.20 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32498019 ES	0.30 - 0.40 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497919 ESA1	0.30 - 0.40 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32497906 ESA2	0.50 - 0.60 Soil/Solid (S) 18/11/2025 22/11/2025 251122-24 32498024 ES
Component	LOD/Units	Method								
PFDaA (307-55-1)	<0.002 µg/l	TM434				<0.002				
PFDS (335-77-3)	<0.002 µg/l	TM434				<0.002				
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434				<0.003				
PFUnDS (749786-16-1)	<0.002 µg/l	TM434				<0.002				
PFTeA (376-06-7)	<0.001 µg/l	TM434				<0.001				
PFOSA (754-91-6)	<0.002 µg/l	TM434				<0.002				
PFDoS (79780-39-5)	<0.002 µg/l	TM434				<0.002				
PFHxDA (67905-19-5)	<0.001 µg/l	TM434				<0.001				
MeFOSE (24448-09-7)	<0.01 µg/l	TM434				<0.01				
PFODA (16517-11-6)	<0.001 µg/l	TM434				<0.001				
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434				<0.01				
Total PFOS	<0.00065 µg/l	TM434				<0.00065				
PFecHS (646-83-3)	<0.001 µg/l	TM434				<0.001				
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434				<0.001				
Moisture Content Ratio (% of as received sample)	%	PM024			15		25	21	23	16
Soil Organic Matter (SOM)	<0.35 %	TM132			0.945		23.1	10.3	11.7	1.83
pH	1 pH Units	TM133			6.93		6.38	6.54	6.46	7.1
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8		<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1		<1	<1	<1	<1
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		POUL-SP511-B	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM440	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.10 - 0.20 Process Water (PR) 18/11/2025	0.10 - 0.20 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.50 - 0.60 Soil/Solid (S) 18/11/2025
m	mCERTS accredited.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.					22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
*** 6:2 FTAB (see appendix)					32497893	32497970	32498019	32497919	32497906	32498024
1-4**@ Sample deviation (see appendix)					ESALS	WT	ES	ESA1	ESA2	ES
Component	LOD/Units	Method								
PFOA (355-67-1)	<0.5 µg/kg	TM440			1.03		3.67	2.37	2.79	1.35
PFHxS (355-46-4)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440			<10		<10	<10	<10	<10
PFNA (375-95-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440			<4.4		<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
Branched PFOS	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440			<0.6		2.3	0.869	1.37	<0.6
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440			<2.5		<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440			<1.4		<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440			<0.8		<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440			<0.6		<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440			<0.7		<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	<5 µg/kg	TM440			<5		<5	<5	<5	<5
PFHxDA (67905-19-5)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	<0.5 µg/kg	TM440			<0.5		<0.5	<0.5	<0.5	<0.5
8:2 diPAP (678-41-1)	<0.9 µg/kg	TM440			<0.9		<0.9	<0.9	<0.9	<0.9



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	POUL-SP511-C-S2	POUL-SP511-C-S2	POUL-SP511-D	POUL-SP511-D	POUL-SP511-D	POUL-SP511-E							
#	ISO17025 accredited.															
M	mCERTS accredited.															
aq	Aqueous / settled sample.															
diss.filt	Dissolved / filtered sample.															
tot.unfilt	Total / unfiltered sample.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.00 - 0.10 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.00 - 0.60 Process Water (PR) 18/11/2025							
* Subcontracted - refer to subcontractor report for accreditation status.																
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery																
*** 6.2 FTAB (see appendix)																
1-4**@Sample deviation (see appendix)																
Component	LOD/Units	Method														
PFBA (375-22-4)	<0.002 µg/l	TM434							<0.002							
PFMOPrA (377-73-1)	<0.001 µg/l	TM434							<0.001							
3:3 FTCA (356-02-5)	<0.005 µg/l	TM434							<0.005							
PFPA (2706-90-3)	<0.001 µg/l	TM434							<0.001							
PFMOBA (863090-89-5)	<0.001 µg/l	TM434							<0.001							
4:2 FTS (757124-72-4)	<0.001 µg/l	TM434							<0.001							
NFDHA (151772-58-6)	<0.003 µg/l	TM434							<0.003							
PFBS (375-73-5)	<0.001 µg/l	TM434							<0.001							
PFHxA (307-24-4)	<0.001 µg/l	TM434							<0.001							
HFPO-DA (13252-13-6)	<0.002 µg/l	TM434							<0.002							
PFEESA (113507-82-7)	<0.001 µg/l	TM434							<0.001							
PFHpA (375-85-9)	<0.001 µg/l	TM434							<0.001							
PFPeS (2706-91-4)	<0.001 µg/l	TM434							<0.001							
5:3 FTCA (914637-49-3)	<0.005 µg/l	TM434							<0.005							
ADONA (919005-14-4)	<0.001 µg/l	TM434							<0.001							
6:2 FTS (27619-97-2)	<0.001 µg/l	TM434							<0.001							
FBSA (30334-69-1)	<0.001 µg/l	TM434							<0.001							
PFOA (335-67-1)	<0.00065 µg/l	TM434							<0.00065							
PFHxS (355-46-4)	<0.001 µg/l	TM434							<0.001							
PFNA (375-95-1)	<0.001 µg/l	TM434							<0.001							
PFHpS (375-92-8)	<0.001 µg/l	TM434							<0.001							
8:2 FTS (39108-34-4)	<0.002 µg/l	TM434							<0.002							
HFPO-TA (13252-14-7)	<0.005 µg/l	TM434							<0.005							
PFDA (335-76-2)	<0.002 µg/l	TM434							<0.002							
MeFOSAA (2355-31-9)	<0.002 µg/l	TM434							<0.002							
7:3 FTCA (812-70-4)	<0.005 µg/l	TM434							<0.005							
Linear PFOS (1763-23-1)	<0.00065 µg/l	TM434							<0.00065							
Branched PFOS	<0.00065 µg/l	TM434							<0.00065							
EtFOSAA (2991-50-6)	<0.002 µg/l	TM434							<0.002							
PFUnA (2058-94-8)	<0.002 µg/l	TM434							<0.002							
9CI-PF3ONS (756426-58-1)	<0.001 µg/l	TM434							<0.001							
PFNS (68259-12-1)	<0.001 µg/l	TM434							<0.001							
FHxSA (41997-13-1)	<0.001 µg/l	TM434							<0.001							



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.		POUL-SP511-C-S2	POUL-SP511-C-S2	POUL-SP511-D	POUL-SP511-D	POUL-SP511-D	POUL-SP511-E
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	TM434	0.30 - 0.40	0.30 - 0.40	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.00 - 0.60
m	mCERTS accredited.				Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process Water (PR)
aq	Aqueous / settled sample.				18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
diss.filt	Dissolved / filtered sample.				22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025	22/11/2025
tot.unfilt	Total / unfiltered sample.				251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
* Subcontracted - refer to subcontractor report for accreditation status.					32497921	32497908	32497896	32498030	32498035	32498052
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery					ESA1	ESA2	ESALS	ES	ES	WS
*** 6:2 FTAB (see appendix)										
1-4* Sample deviation (see appendix)										
Component	LOD/Units	Method								
PFDoA (307-55-1)	<0.002 µg/l	TM434								<0.002
PFDS (335-77-3)	<0.002 µg/l	TM434								<0.002
PFTTrDA (72629-94-8)	<0.003 µg/l	TM434								<0.003
11Cl-PF3OUdS (763051-92-9)	<0.002 µg/l	TM434								<0.002
PFUnDS (749786-16-1)	<0.002 µg/l	TM434								<0.002
PFTeA (376-06-7)	<0.001 µg/l	TM434								<0.001
PFOSA (754-91-6)	<0.002 µg/l	TM434								<0.002
PFDoS (79780-39-5)	<0.002 µg/l	TM434								<0.002
PFHxDA (67905-19-5)	<0.001 µg/l	TM434								<0.001
MeFOSE (24448-09-7)	<0.01 µg/l	TM434								<0.01
N-MeFOSE (31506-32-8)	<0.001 µg/l	TM434								<0.001
EtFOSE (1691-99-2)	<0.01 µg/l	TM434								<0.01
PFODA (16517-11-6)	<0.001 µg/l	TM434								<0.001
N-EtFOSE (4151-50-2)	<0.001 µg/l	TM434								<0.001
6:2 FTAB (34455-29-3)	<0.01 µg/l	TM434								<0.01
Total PFOS	<0.00065 µg/l	TM434								<0.00065
PFecHS (646-83-3)	<0.001 µg/l	TM434								<0.001
PFTTrDS (791563-89-8)	<0.001 µg/l	TM434								<0.001
Moisture Content Ratio (% of as received sample)	%	PM024			20	20	21	22	22	
Soil Organic Matter (SOM)	<0.35 %	TM132			4.21	4.43	17.1	14.8	5	
pH	1 pH Units	TM133			7.36	7.05	6.63	6.42	7.3	
PFBA (375-22-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPRA (377-73-1)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440			<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	<1.8 µg/kg	TM440			<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	<1 µg/kg	TM440			<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	<0.5 µg/kg	TM440			<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend			Customer Sample Ref.	POUL-SP511-C-S2	POUL-SP511-C-S2	POUL-SP511-D	POUL-SP511-D	POUL-SP511-D	POUL-SP511-E
# ISO17025 accredited.									
M mCERTS accredited.									
aq Aqueous / settled sample.									
diss.filt Dissolved / filtered sample.									
tot.unfiltTotal / unfiltered sample.									
* Subcontracted - refer to subcontractor report for accreditation status.									
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
*** 6:2 FTAB (see appendix)									
1-4**@ Sample deviation (see appendix)									
Component	LOD/Units	Method	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.00 - 0.10 Soil/Solid (S) 18/11/2025	0.30 - 0.40 Soil/Solid (S) 18/11/2025	0.40 - 0.50 Soil/Solid (S) 18/11/2025	0.00 - 0.60 Process Water (PR) 18/11/2025
PFPeS (2706-91-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	<0.5 µg/kg	TM440		2.99	1.51	2.41	2.03	1.59	
PFHxS (355-46-4)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440		<10	<10	<10	<10	<10	
PFNA (375-95-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440		<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440		<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440		<0.6	<0.6	4.03	2.93	<0.6	
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440		<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	<1.4 µg/kg	TM440		<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8 µg/kg	TM440		<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	<0.6 µg/kg	TM440		<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7 µg/kg	TM440		<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	<0.5 µg/kg	TM440		<0.5	<0.5	<0.5	<0.5	<0.5	



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Results Legend		Customer Sample Ref.	POUL-SP511-E	POUL-SP511-E	POUL-SP511-E			
#	ISO17025 accredited.							
M	mCERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
* Subcontracted - refer to subcontractor report for accreditation status.								
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
*** 6:2 FTAB (see appendix)								
1-4*§@Sample deviation (see appendix)								
Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	23	24	18			
Soil Organic Matter (SOM)	<0.35 %	TM132	16.5	13.3	1.95			
			#	#	#			
pH	1 pH Units	TM133	7.36	7.52	7.88			
			M	M	M			
PFBA (375-22-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOPrA (377-73-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
3:3 FTCA (356-02-5)	<0.8 µg/kg	TM440	<0.8	<0.8	<0.8			
PFPA (2706-90-3)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFMOBA (863090-89-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
4:2 FTS (757124-72-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
NFDHA (151772-58-6)	<1.8 µg/kg	TM440	<1.8	<1.8	<1.8			
PFHxA (307-24-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFBS (375-73-5)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
HFPO-DA (13252-13-6)	<1 µg/kg	TM440	<1	<1	<1			
PFEESA (113507-82-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpA (375-85-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFPeS (2706-91-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
ADONA (919005-14-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTS (27619-97-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
5:3 FTCA (914637-49-3)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			
PFOA (335-67-1)	<0.5 µg/kg	TM440	4.93	5.08	3.56			
PFHxS (355-46-4)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
FBSA (30334-69-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
6:2 FTAB (34455-29-3)***	<10 µg/kg	TM440	<10	<10	<10			
PFNA (375-95-1)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFecHS (133201-07-7)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
PFHpS (375-92-8)	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
8:2 FTS (39108-34-4)	<0.9 µg/kg	TM440	<0.9	<0.9	<0.9			
HFPO-TA (13252-14-7)	<4.4 µg/kg	TM440	<4.4	<4.4	<4.4			
PFDA (335-76-2)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
MeFOSAA (2355-31-9)	<0.5 µg/kg	TM440	<0.5	<0.5	<0.5			
Branched PFOS	<0.6 µg/kg	TM440	<0.6	<0.6	<0.6			
Linear PFOS (1763-23-1)	<0.6 µg/kg	TM440	2.19	2.11	0.802			
7:3 FTCA (812-70-4)	<2.5 µg/kg	TM440	<2.5	<2.5	<2.5			



CERTIFICATE OF ANALYSIS

Validated

SDG: 251122-24 Report Number: 786519 Superseded Report: 784694
Client Ref.: UK-70100310 Location: Thornton Phase 3

Notification of NDPs (No determination possible)

Date Received : 22/11/2025 07:10:27

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
32497970	POUL-SP511-C-S1 WT	0.10 - 0.20	PFAS Liquids (Full Suite)	Insufficient Sample



CERTIFICATE OF ANALYSIS

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SDG: 251122-24

Report Number: 786519

Superseded Report: 784694

Client Ref.: UK-70100310

Location: Thornton Phase 3

Table of Results - Appendix

Method No	Description
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM434	Analysis of PFAS in Liquid matrices
TM440	Analysis of PFAS in Solid matrices

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	32497923	32497926	32498059	32497973	32497976	32497978	32497980	32497982	32497984	32497902
	GR03-SP318-A	GR03-SP318-A	GR03-SP318-A	GR04-SP422-A	GR04-SP422-A	GR04-SP422-A	GR04-SP422-B	GR04-SP422-B	GR04-SP422-B	GR03-SP318-B-S1
	ES	ES	ESALS	ES	ES	ES	ES	ES	ES	ESA2
	0.20 - 0.30	0.50 - 0.60	0.10 - 0.20	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	10-Dec-2025	15-Dec-2025	12-Dec-2025	12-Dec-2025	15-Dec-2025	09-Dec-2025	09-Dec-2025	15-Dec-2025	09-Dec-2025	15-Dec-2025
pH	02-Dec-2025	02-Dec-2025	02-Dec-2025	26-Nov-2025	02-Dec-2025	26-Nov-2025	26-Nov-2025	02-Dec-2025	26-Nov-2025	02-Dec-2025
Sample description	26-Nov-2025	26-Nov-2025	26-Nov-2025	25-Nov-2025	26-Nov-2025	25-Nov-2025	25-Nov-2025	26-Nov-2025	25-Nov-2025	26-Nov-2025
Total Organic Carbon	02-Dec-2025	02-Dec-2025	02-Dec-2025	28-Nov-2025	02-Dec-2025	28-Nov-2025	28-Nov-2025	02-Dec-2025	28-Nov-2025	02-Dec-2025

Lab Sample No(s) Customer Sample Ref.	32497910	32497929	32497931	32497999	32497904	32497914	32497933	32497935	32497938	32497942
	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S2	GR03-SP318-B-S2	GR03-SP318-C	GR03-SP318-C	GR03-SP318-C	GR04-SP422-C
	ESA1	ES	ES	WS	ESA2	ESA1	ES	ES	ES	WT
	0.20 - 0.30	0.00 - 0.10	0.40 - 0.50	0.00 - 0.50	0.20 - 0.30	0.20 - 0.30	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	12-Dec-2025	10-Dec-2025	12-Dec-2025		12-Dec-2025	12-Dec-2025	12-Dec-2025	10-Dec-2025	10-Dec-2025	
PFAS Liquids (Full Suite)				18-Dec-2025						18-Dec-2025
pH	02-Dec-2025	02-Dec-2025	02-Dec-2025		02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	
Sample description	26-Nov-2025	26-Nov-2025	26-Nov-2025		26-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	
Total Organic Carbon	28-Nov-2025	02-Dec-2025	02-Dec-2025		02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	

Lab Sample No(s) Customer Sample Ref.	32497986	32497989	32498067	32497887	32497940	32497946	32497948	32497916	32497950	32497953
	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR03-SP318-D	GR03-SP318-D	GR03-SP318-D	GR03-SP318-D	GR03-SP318-E	GR03-SP318-E	GR03-SP318-E
	ES	ES	ESALS	WT	ES	ES	ES	WT	ES	ES
	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.10	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.10 - 0.20	0.20 - 0.30
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	15-Dec-2025	15-Dec-2025	12-Dec-2025		09-Dec-2025	12-Dec-2025	12-Dec-2025		12-Dec-2025	09-Dec-2025
PFAS Liquids (Full Suite)				18-Dec-2025				18-Dec-2025		
pH	02-Dec-2025	02-Dec-2025	02-Dec-2025		26-Nov-2025	02-Dec-2025	02-Dec-2025		02-Dec-2025	26-Nov-2025
Sample description	26-Nov-2025	26-Nov-2025	26-Nov-2025		25-Nov-2025	26-Nov-2025	26-Nov-2025		26-Nov-2025	25-Nov-2025
Total Organic Carbon	02-Dec-2025	02-Dec-2025	02-Dec-2025		28-Nov-2025	02-Dec-2025	02-Dec-2025		28-Nov-2025	28-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32498063	32497955	32497957	32497959	32497961	32497964	32497967	32497890	32497991	32497994
	GR03-SP318-E	GR03-SP318-F	GR03-SP318-F	GR03-SP318-F	GR03-SP318-G	GR03-SP318-G	GR03-SP318-G	POUL-SP511-A	POUL-SP511-A	POUL-SP511-A
	ESALS	ES	ES	ES	ES	ES	ES	ESALS	ES	ES
	0.50 - 0.60	0.00 - 0.10	0.20 - 0.30	0.40 - 0.50	0.10 - 0.20	0.30 - 0.40	0.50 - 0.60	0.20 - 0.30	0.10 - 0.20	0.50 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	09-Dec-2025	12-Dec-2025	12-Dec-2025	12-Dec-2025	12-Dec-2025	12-Dec-2025	12-Dec-2025	09-Dec-2025	15-Dec-2025	12-Dec-2025
pH	26-Nov-2025	02-Dec-2025	02-Dec-2025	26-Nov-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	26-Nov-2025	02-Dec-2025	26-Nov-2025
Sample description	25-Nov-2025	26-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025	26-Nov-2025	25-Nov-2025	25-Nov-2025	26-Nov-2025	25-Nov-2025
Total Organic Carbon	28-Nov-2025	02-Dec-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025	02-Dec-2025	28-Nov-2025	28-Nov-2025	02-Dec-2025	28-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32497893	32498008	32498013	32497906	32497919	32497970	32498019	32498024	32497908	32497921
	POUL-SP511-B	POUL-SP511-B	POUL-SP511-B	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S1	POUL-SP511-C-S2	POUL-SP511-C-S2
	ESALS	ES	ES	ESA2	ESA1	WT	ES	ES	ESA2	ESA1
	0.40 - 0.50	0.00 - 0.10	0.20 - 0.30	0.30 - 0.40	0.30 - 0.40	0.10 - 0.20	0.10 - 0.20	0.50 - 0.60	0.30 - 0.40	0.30 - 0.40
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
PFAS in soils	09-Dec-2025	15-Dec-2025	09-Dec-2025	12-Dec-2025	08-Dec-2025		12-Dec-2025	09-Dec-2025	09-Dec-2025	11-Dec-2025
PFAS Liquids (Full Suite)						08-Dec-2025				
pH	02-Dec-2025	02-Dec-2025	26-Nov-2025	02-Dec-2025	02-Dec-2025		26-Nov-2025	26-Nov-2025	26-Nov-2025	25-Nov-2025
Sample description	25-Nov-2025	26-Nov-2025	25-Nov-2025	25-Nov-2025	25-Nov-2025		25-Nov-2025	25-Nov-2025	25-Nov-2025	22-Nov-2025
Total Organic Carbon	28-Nov-2025	02-Dec-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025		02-Dec-2025	28-Nov-2025	28-Nov-2025	28-Nov-2025

Lab Sample No(s) Customer Sample Ref.	32497896	32498030	32498035	32497899	32498040	32498048	32498052
	POUL-SP511-D	POUL-SP511-D	POUL-SP511-D	POUL-SP511-E	POUL-SP511-E	POUL-SP511-E	POUL-SP511-E
	ESALS	ES	ES	ESALS	ES	ES	WS
	0.00 - 0.10	0.30 - 0.40	0.40 - 0.50	0.10 - 0.20	0.20 - 0.30	0.50 - 0.60	0.00 - 0.60
	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Process
PFAS in soils	15-Dec-2025	12-Dec-2025	11-Dec-2025	15-Dec-2025	12-Dec-2025	15-Dec-2025	
PFAS Liquids (Full Suite)							18-Dec-2025
pH	26-Nov-2025	02-Dec-2025	25-Nov-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	
Sample description	25-Nov-2025	25-Nov-2025	22-Nov-2025	26-Nov-2025	26-Nov-2025	26-Nov-2025	
Total Organic Carbon	28-Nov-2025	28-Nov-2025	28-Nov-2025	02-Dec-2025	02-Dec-2025	02-Dec-2025	



CERTIFICATE OF ANALYSIS

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SDG: 251122-24
Client Ref.: UK-70100310Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

ASSOCIATED AQC DATA

PFAS in soils

Component	Method Code	QC 3278	QC 3273	QC 3200	QC 3216	QC 3232	QC 3272
10:2 FTS (Raw)	TM440	106.29 53.10 : 140.00	108.3 53.10 : 140.00	91.51 53.10 : 140.00	87.63 53.10 : 140.00	94.01 53.10 : 140.00	90.45 53.10 : 140.00
11CI-PF3OUdS (Raw)	TM440	92.55 53.56 : 141.19	122.71 53.56 : 141.19	96.59 53.56 : 141.19	86.78 53.56 : 141.19	100.91 53.56 : 141.19	97.32 53.56 : 141.19
3:3 FTCA (Raw)	TM440	101.74 50.54 : 133.25	96.82 50.54 : 133.25	105.3 50.54 : 133.25	106.48 50.54 : 133.25	104.59 50.54 : 133.25	96.78 50.54 : 133.25
4:2 FTS (Raw)	TM440	99.95 56.34 : 145.91	87.68 56.34 : 145.91	94.39 56.34 : 145.91	103.72 56.34 : 145.91	87.77 56.34 : 145.91	95.61 56.34 : 145.91
5:3 FTCA (Raw)	TM440	103.34 52.66 : 130.08	88.07 52.66 : 130.08	100.32 52.66 : 130.08	109.84 52.66 : 130.08	93.44 52.66 : 130.08	95.85 52.66 : 130.08
6:2 FTAB (Raw)	TM440	35.54 38.50 : 101.50	36.88 38.50 : 101.50	39.66 38.50 : 101.50	34.62 38.50 : 101.50	36.84 38.50 : 101.50	34.72 38.50 : 101.50
6:2 FTS (Raw)	TM440	88.76 54.79 : 144.46	104.74 54.79 : 144.46	97.1 54.79 : 144.46	96.35 54.79 : 144.46	89.21 54.79 : 144.46	106.31 54.79 : 144.46
7:3 FTCA (Raw)	TM440	93.61 48.60 : 128.14	92.22 48.60 : 128.14	91.98 48.60 : 128.14	93.6 48.60 : 128.14	85.6 48.60 : 128.14	86.22 48.60 : 128.14
8:2 diPAP (Raw)	TM440	98.64 56.03 : 147.72	79.64 56.03 : 147.72	80.73 56.03 : 147.72	92.51 56.03 : 147.72	86.12 56.03 : 147.72	88.29 56.03 : 147.72
8:2 FTS (Raw)	TM440	105.76 55.74 : 146.96	110.82 55.74 : 146.96	102.63 55.74 : 146.96	93.56 55.74 : 146.96	114.44 55.74 : 146.96	100.18 55.74 : 146.96
9CI-PF3ONS (Raw)	TM440	88.63 54.59 : 143.91	98.08 54.59 : 143.91	91.98 54.59 : 143.91	84.85 54.59 : 143.91	87.83 54.59 : 143.91	87.53 54.59 : 143.91
ADONA (Raw)	TM440	97.34 54.01 : 132.33	94.43 54.01 : 132.33	105.49 54.01 : 132.33	102.11 54.01 : 132.33	82.06 54.01 : 132.33	92.69 54.01 : 132.33
Branched PFOS (Raw)	TM440	96.72 54.09 : 142.61	96.31 54.09 : 142.61	95.78 54.09 : 142.61	87.59 54.09 : 142.61	95.87 54.09 : 142.61	91.55 54.09 : 142.61
EtFOSAA (Raw)	TM440	101.98 52.48 : 138.36	96.12 52.48 : 138.36	98.0 52.48 : 138.36	96.85 52.48 : 138.36	89.97 52.48 : 138.36	91.64 52.48 : 138.36
EtFOSE (Raw)	TM440	101.32 57.05 : 145.29	207.08 57.05 : 145.29	181.91 57.05 : 145.29	96.97 57.05 : 145.29	181.5 57.05 : 145.29	88.58 57.05 : 145.29
FBSA (Raw)	TM440	93.93 49.51 : 125.13	96.84 49.51 : 125.13	96.29 49.51 : 125.13	92.42 49.51 : 125.13	97.36 49.51 : 125.13	82.98 49.51 : 125.13
FHxSA (Raw)	TM440	90.57 50.38 : 132.82	101.58 50.38 : 132.82	91.9 50.38 : 132.82	84.74 50.38 : 132.82	90.02 50.38 : 132.82	81.93 50.38 : 132.82
HFPO-DA (Raw)	TM440	94.87 53.47 : 140.98	103.23 53.47 : 140.98	102.09 53.47 : 140.98	98.26 53.47 : 140.98	101.03 53.47 : 140.98	89.98 53.47 : 140.98
HFPO-TA (Raw)	TM440	199.43 44.84 : 118.21	218.65 44.84 : 118.21	224.39 44.84 : 118.21	217.71 44.84 : 118.21	215.85 44.84 : 118.21	215.41 44.84 : 118.21
L-PFOS (Raw)	TM440	96.72 54.09 : 142.61	96.31 54.09 : 142.61	95.78 54.09 : 142.61	87.59 54.09 : 142.61	95.87 54.09 : 142.61	91.55 54.09 : 142.61
MeFOSAA (Raw)	TM440	93.92 53.02 : 139.78	92.56 53.02 : 139.78	90.64 53.02 : 139.78	95.75 53.02 : 139.78	95.43 53.02 : 139.78	108.45 53.02 : 139.78
MeFOSE (Raw)	TM440	91.59 54.99 : 144.97	104.48 54.99 : 144.97	94.76 54.99 : 144.97	104.27 54.99 : 144.97	100.73 54.99 : 144.97	87.02 54.99 : 144.97
N-EtFOSA (Raw)	TM440	97.75 59.56 : 132.93	106.6 59.56 : 132.93	103.14 59.56 : 132.93	99.68 59.56 : 132.93	94.47 59.56 : 132.93	106.05 59.56 : 132.93
NFDHA (Raw)	TM440	94.64 57.35 : 151.20	94.1 57.35 : 151.20	96.46 57.35 : 151.20	101.5 57.35 : 151.20	94.71 57.35 : 151.20	93.39 57.35 : 151.20
N-MeFOSA (Raw)	TM440	107.87 59.19 : 133.01	90.81 59.19 : 133.01	96.57 59.19 : 133.01	97.48 59.19 : 133.01	92.12 59.19 : 133.01	91.93 59.19 : 133.01
PFBA (Raw)	TM440	89.76 52.69 : 138.91	97.7 52.69 : 138.91	99.94 52.69 : 138.91	96.59 52.69 : 138.91	99.88 52.69 : 138.91	88.97 52.69 : 138.91



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SDG: 251122-24
Client Ref.: UK-70100310

Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

PFAS in soils

		QC 3278	QC 3273	QC 3200	QC 3216	QC 3232	QC 3272
PFBS (Raw)	TM440	89.87 53.31 : 140.54	101.8 53.31 : 140.54	94.49 53.31 : 140.54	90.79 53.31 : 140.54	94.19 53.31 : 140.54	85.23 53.31 : 140.54
PFDA (Raw)	TM440	91.98 53.39 : 140.76	102.39 53.39 : 140.76	108.16 53.39 : 140.76	95.03 53.39 : 140.76	100.43 53.39 : 140.76	89.1 53.39 : 140.76
PFDoA (Raw)	TM440	101.76 52.85 : 139.34	102.74 52.85 : 139.34	103.85 52.85 : 139.34	99.42 52.85 : 139.34	95.6 52.85 : 139.34	92.89 52.85 : 139.34
PFDoS (Raw)	TM440	95.59 55.29 : 145.76	121.3 55.29 : 145.76	98.88 55.29 : 145.76	82.32 55.29 : 145.76	99.63 55.29 : 145.76	89.65 55.29 : 145.76
PFDS (Raw)	TM440	90.85 52.94 : 139.56	98.69 52.94 : 139.56	105.85 52.94 : 139.56	87.38 52.94 : 139.56	98.42 52.94 : 139.56	87.3 52.94 : 139.56
PFecHS (Raw)	TM440	95.05 50.75 : 133.80	86.56 50.75 : 133.80	91.95 50.75 : 133.80	100.7 50.75 : 133.80	87.66 50.75 : 133.80	106.15 50.75 : 133.80
PFEESA (Raw)	TM440	96.62 50.87 : 134.12	102.2 50.87 : 134.12	101.26 50.87 : 134.12	89.0 50.87 : 134.12	96.52 50.87 : 134.12	91.0 50.87 : 134.12
PFHpA (Raw)	TM440	91.9 52.61 : 138.69	109.23 52.61 : 138.69	109.12 52.61 : 138.69	100.51 52.61 : 138.69	94.83 52.61 : 138.69	91.97 52.61 : 138.69
PFHpS (Raw)	TM440	96.5 55.29 : 145.76	113.22 55.29 : 145.76	106.36 55.29 : 145.76	92.3 55.29 : 145.76	92.96 55.29 : 145.76	91.74 55.29 : 145.76
PFHxA (Raw)	TM440	94.87 54.05 : 142.50	104.4 54.05 : 142.50	101.28 54.05 : 142.50	97.21 54.05 : 142.50	98.88 54.05 : 142.50	91.6 54.05 : 142.50
PFHxDA (Raw)	TM440	90.48 52.03 : 137.17	100.61 52.03 : 137.17	96.41 52.03 : 137.17	93.7 52.03 : 137.17	95.43 52.03 : 137.17	90.22 52.03 : 137.17
PFHxS (Raw)	TM440	96.37 53.56 : 141.19	88.84 53.56 : 141.19	93.21 53.56 : 141.19	103.45 53.56 : 141.19	90.57 53.56 : 141.19	88.32 53.56 : 141.19
PFMOBA (Raw)	TM440	88.25 52.73 : 139.02	91.76 52.73 : 139.02	100.54 52.73 : 139.02	84.87 52.73 : 139.02	112.27 52.73 : 139.02	88.45 52.73 : 139.02
PFMOPra (Raw)	TM440	112.47 52.57 : 138.58	112.54 52.57 : 138.58	115.35 52.57 : 138.58	109.89 52.57 : 138.58	111.32 52.57 : 138.58	106.77 52.57 : 138.58
PFNA (Raw)	TM440	91.56 52.94 : 139.56	100.08 52.94 : 139.56	104.39 52.94 : 139.56	109.31 52.94 : 139.56	101.05 52.94 : 139.56	87.7 52.94 : 139.56
PFNS (Raw)	TM440	91.3 54.38 : 143.37	98.86 54.38 : 143.37	96.3 54.38 : 143.37	85.72 54.38 : 143.37	92.99 54.38 : 143.37	83.29 54.38 : 143.37
PFOA (Raw)	TM440	91.04 53.80 : 141.85	106.17 53.80 : 141.85	101.29 53.80 : 141.85	91.42 53.80 : 141.85	101.21 53.80 : 141.85	89.7 53.80 : 141.85
PFODA (Raw)	TM440	88.43 56.03 : 147.72	84.33 56.03 : 147.72	100.64 56.03 : 147.72	88.72 56.03 : 147.72	102.02 56.03 : 147.72	86.51 56.03 : 147.72
PFOSA (Raw)	TM440	93.7 53.10 : 140.00	91.08 53.10 : 140.00	89.04 53.10 : 140.00	96.57 53.10 : 140.00	92.68 53.10 : 140.00	90.26 53.10 : 140.00
PFPA (Raw)	TM440	90.67 53.89 : 142.06	111.67 53.89 : 142.06	102.99 53.89 : 142.06	94.08 53.89 : 142.06	103.41 53.89 : 142.06	94.09 53.89 : 142.06
PFPeS (Raw)	TM440	95.53 54.30 : 143.15	90.19 54.30 : 143.15	98.87 54.30 : 143.15	98.3 54.30 : 143.15	89.85 54.30 : 143.15	93.04 54.30 : 143.15
PFTeA (Raw)	TM440	94.49 53.06 : 139.89	96.37 53.06 : 139.89	90.88 53.06 : 139.89	103.45 53.06 : 139.89	96.74 53.06 : 139.89	95.01 53.06 : 139.89
PFTrDA (Raw)	TM440	98.09 51.70 : 136.30	107.12 51.70 : 136.30	90.94 51.70 : 136.30	99.89 51.70 : 136.30	103.09 51.70 : 136.30	99.6 51.70 : 136.30
PFTrDS (Raw)	TM440	96.49 56.24 : 148.26	117.62 56.24 : 148.26	95.67 56.24 : 148.26	83.46 56.24 : 148.26	94.34 56.24 : 148.26	88.65 56.24 : 148.26
PFUnA (Raw)	TM440	86.48 53.35 : 140.65	109.1 53.35 : 140.65	105.25 53.35 : 140.65	95.57 53.35 : 140.65	97.04 53.35 : 140.65	93.0 53.35 : 140.65
PFUnDS (Raw)	TM440	91.1 53.60 : 141.30	116.88 53.60 : 141.30	95.81 53.60 : 141.30	81.12 53.60 : 141.30	95.85 53.60 : 141.30	78.31 53.60 : 141.30



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PFAS in soils

Component	Method Code	QC 3212	QC 3233
10:2 FTS (Raw)	TM440	96.29 53.10 : 140.00	102.98 53.10 : 140.00
11Cl-PF3OUdS (Raw)	TM440	93.75 53.56 : 141.19	103.15 53.56 : 141.19
3:3 FTCA (Raw)	TM440	98.68 50.54 : 133.25	105.73 50.54 : 133.25
4:2 FTS (Raw)	TM440	92.58 56.34 : 145.91	94.57 56.34 : 145.91
5:3 FTCA (Raw)	TM440	100.4 52.66 : 130.08	100.83 52.66 : 130.08
6:2 FTAB (Raw)	TM440	32.04 38.50 : 101.50	36.75 38.50 : 101.50
6:2 FTS (Raw)	TM440	90.22 54.79 : 144.46	101.8 54.79 : 144.46
7:3 FTCA (Raw)	TM440	80.05 48.60 : 128.14	104.95 48.60 : 128.14
8:2 diPAP (Raw)	TM440	91.41 56.03 : 147.72	96.99 56.03 : 147.72
8:2 FTS (Raw)	TM440	93.51 55.74 : 146.96	109.23 55.74 : 146.96
9Cl-PF3ONS (Raw)	TM440	91.84 54.59 : 143.91	97.42 54.59 : 143.91
ADONA (Raw)	TM440	87.03 54.01 : 132.33	98.56 54.01 : 132.33
Branched PFOS (Raw)	TM440	94.15 54.09 : 142.61	93.37 54.09 : 142.61
EtFOSAA (Raw)	TM440	88.62 52.48 : 138.36	112.15 52.48 : 138.36
EtFOSE (Raw)	TM440	93.03 57.05 : 145.29	192.58 57.05 : 145.29
FBSA (Raw)	TM440	83.99 49.51 : 125.13	102.19 49.51 : 125.13
FHxSA (Raw)	TM440	80.7 50.38 : 132.82	105.15 50.38 : 132.82
HFPO-DA (Raw)	TM440	90.75 53.47 : 140.98	108.43 53.47 : 140.98
HFPO-TA (Raw)	TM440	201.77 44.84 : 118.21	232.06 44.84 : 118.21
L-PFOS (Raw)	TM440	94.15 54.09 : 142.61	93.37 54.09 : 142.61
MeFOSAA (Raw)	TM440	95.25 53.02 : 139.78	91.79 53.02 : 139.78
MeFOSE (Raw)	TM440	94.2 54.99 : 144.97	102.59 54.99 : 144.97
N-EtFOSA (Raw)	TM440	100.01 59.56 : 132.93	112.57 59.56 : 132.93
NFDHA (Raw)	TM440	86.8 57.35 : 151.20	100.63 57.35 : 151.20
N-MeFOSA (Raw)	TM440	87.35 59.19 : 133.01	102.25 59.19 : 133.01
PFBA (Raw)	TM440	90.2 52.69 : 138.91	109.01 52.69 : 138.91
PFBS (Raw)	TM440	85.44 53.31 : 140.54	98.03 53.31 : 140.54



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PFAS in soils

		QC 3212	QC 3233
PFDA (Raw)	TM440	91.76 53.39 : 140.76	107.41 53.39 : 140.76
PFDoA (Raw)	TM440	83.47 52.85 : 139.34	119.16 52.85 : 139.34
PFDoS (Raw)	TM440	94.71 55.29 : 145.76	109.57 55.29 : 145.76
PFDS (Raw)	TM440	101.47 52.94 : 139.56	123.13 52.94 : 139.56
PFecHS (Raw)	TM440	88.08 50.75 : 133.80	103.16 50.75 : 133.80
PFEESA (Raw)	TM440	87.71 50.87 : 134.12	105.22 50.87 : 134.12
PFHpA (Raw)	TM440	90.69 52.61 : 138.69	108.48 52.61 : 138.69
PFHpS (Raw)	TM440	97.48 55.29 : 145.76	104.22 55.29 : 145.76
PFHxA (Raw)	TM440	101.9 54.05 : 142.50	107.63 54.05 : 142.50
PFHxDA (Raw)	TM440	89.15 52.03 : 137.17	99.31 52.03 : 137.17
PFHxS (Raw)	TM440	88.27 53.56 : 141.19	99.13 53.56 : 141.19
PFMOBA (Raw)	TM440	84.43 52.73 : 139.02	103.17 52.73 : 139.02
PFMOPra (Raw)	TM440	108.62 52.57 : 138.58	119.49 52.57 : 138.58
PFNA (Raw)	TM440	87.52 52.94 : 139.56	110.32 52.94 : 139.56
PFNS (Raw)	TM440	87.69 54.38 : 143.37	103.66 54.38 : 143.37
PFOA (Raw)	TM440	84.56 53.80 : 141.85	105.49 53.80 : 141.85
PFODA (Raw)	TM440	86.06 56.03 : 147.72	95.72 56.03 : 147.72
PFOSA (Raw)	TM440	86.73 53.10 : 140.00	97.38 53.10 : 140.00
PFPA (Raw)	TM440	94.43 53.89 : 142.06	110.55 53.89 : 142.06
PFPeS (Raw)	TM440	89.91 54.30 : 143.15	107.83 54.30 : 143.15
PFTeA (Raw)	TM440	94.34 53.06 : 139.89	100.96 53.06 : 139.89
PFTrDA (Raw)	TM440	88.49 51.70 : 136.30	107.12 51.70 : 136.30
PFTrDS (Raw)	TM440	94.59 56.24 : 148.26	100.38 56.24 : 148.26
PFUnA (Raw)	TM440	91.03 53.35 : 140.65	110.83 53.35 : 140.65
PFUnDS (Raw)	TM440	90.5 53.60 : 141.30	107.52 53.60 : 141.30

PFAS Liquids (Full Suite)



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PFAS Liquids (Full Suite)

Component	Method Code	QC 3274	QC 3214
11CI-PF3OUdS (763051-92-9)	TM434	131.13 71.39 : 130.11	98.8 71.39 : 130.11
3:3 FTCA (356-02-5)	TM434	78.83 53.44 : 140.89	107.74 53.44 : 140.89
4:2 FTS (757124-72-4)	TM434	101.14 80.71 : 134.26	88.57 80.71 : 134.26
5:3 FTCA (914637-49-3)	TM434	76.31 64.44 : 139.44	97.59 64.44 : 139.44
6:2 FTAB (34455-29-3)	TM434	95.51 58.31 : 142.44	81.94 58.31 : 142.44
6:2 FTS (27619-97-2)	TM434	94.58 73.93 : 134.90	96.74 73.93 : 134.90
7:3 FTCA (812-70-4)	TM434	104.4 61.23 : 140.88	104.63 61.23 : 140.88
8:2 FTS (39108-34-4)	TM434	115.9 82.68 : 128.35	100.01 82.68 : 128.35
9CI-PF3ONS (756426-58-1)	TM434	96.47 69.20 : 147.13	97.76 69.20 : 147.13
ADONA (919005-14-4)	TM434	90.71 73.23 : 135.10	100.16 73.23 : 135.10
EtFOSAA (2991-50-6)	TM434	88.63 72.95 : 133.93	94.82 72.95 : 133.93
EtFOSE (1691-99-2)	TM434	71.74 67.47 : 136.89	87.01 67.47 : 136.89
FBSA (30334-69-1)	TM434	87.42 63.70 : 143.28	109.35 63.70 : 143.28
FHxSA (41997-13-1)	TM434	113.57 63.00 : 139.73	100.38 63.00 : 139.73
HFPO-DA (13252-13-6)	TM434	107.71 67.58 : 142.95	92.99 67.58 : 142.95
HFPO-TA (13252-14-7)	TM434	99.14 60.30 : 158.96	90.38 60.30 : 158.96
Linear PFOS (1763-23-1)	TM434	93.05 70.63 : 141.88	100.33 70.63 : 141.88
MeFOSAA (2355-31-9)	TM434	94.93 75.64 : 130.69	91.25 75.64 : 130.69
MeFOSE (24448-09-7)	TM434	82.19 72.41 : 131.62	90.45 72.41 : 131.62
N-EtFOSA (4151-50-2)	TM434	62.09 57.83 : 132.08	90.43 57.83 : 132.08
NFDHA (151772-58-6)	TM434	99.94 57.60 : 134.40	98.38 57.60 : 134.40
N-MeFOSA (31506-32-8)	TM434	61.4 61.69 : 135.49	86.47 61.69 : 135.49
PFBA (375-22-4)	TM434	96.28 74.68 : 133.63	86.23 74.68 : 133.63
PFBS (375-73-5)	TM434	98.53 74.09 : 133.79	94.56 74.09 : 133.79
PFDA (335-76-2)	TM434	97.0 72.39 : 135.76	93.0 72.39 : 135.76
PFDaA (307-55-1)	TM434	97.74 58.06 : 148.21	94.48 58.06 : 148.21
PFDoS (79780-39-5)	TM434	121.81 74.76 : 130.94	90.82 74.76 : 130.94



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PFAS Liquids (Full Suite)

		QC 3274	QC 3214
PFDS (335-77-3)	TM434	112.53 58.61 : 140.44	102.23 58.61 : 140.44
PFecHS (646-83-3)	TM434	97.1 76.93 : 133.25	95.23 76.93 : 133.25
PFEESA (113507-82-7)	TM434	101.39 62.25 : 138.08	94.19 62.25 : 138.08
PFHpA (375-85-9)	TM434	97.13 75.71 : 136.46	93.32 75.71 : 136.46
PFHpS (375-92-8)	TM434	92.61 76.13 : 132.38	102.21 76.13 : 132.38
PFHxA (307-24-4)	TM434	100.59 78.16 : 133.89	90.55 78.16 : 133.89
PFHxDA (67905-19-5)	TM434	104.33 71.24 : 136.49	93.54 71.24 : 136.49
PFHxS (355-46-4)	TM434	92.52 73.25 : 135.20	94.39 73.25 : 135.20
PFMOBA (863090-89-5)	TM434	110.9 76.41 : 130.26	90.41 76.41 : 130.26
PFMOPra (377-73-1)	TM434	116.19 65.74 : 128.74	90.0 65.74 : 128.74
PFNA (375-95-1)	TM434	105.74 75.01 : 133.06	90.79 75.01 : 133.06
PFNS (68259-12-1)	TM434	98.21 74.74 : 129.26	99.17 74.74 : 129.26
PFOA (335-67-1)	TM434	95.72 74.76 : 136.11	95.6 74.76 : 136.11
PFODA (16517-11-6)	TM434	90.13 53.58 : 141.25	109.07 53.58 : 141.25
PFOSA (754-91-6)	TM434	97.08 76.54 : 135.04	89.47 76.54 : 135.04
PFPA (2706-90-3)	TM434	103.96 77.89 : 134.66	92.34 77.89 : 134.66
PFPeS (2706-91-4)	TM434	89.47 69.49 : 132.71	96.03 69.49 : 132.71
PFTeA (376-06-7)	TM434	97.05 61.66 : 143.71	89.92 61.66 : 143.71
PFTrDA (72629-94-8)	TM434	119.95 67.04 : 136.04	98.49 67.04 : 136.04
PFTrDS (791563-89-8)	TM434	121.44 76.88 : 133.35	95.38 76.88 : 133.35
PFUnA (2058-94-8)	TM434	96.79 70.21 : 138.54	91.62 70.21 : 138.54
PFUnDS (749786-16-1)	TM434	126.17 71.45 : 127.25	94.36 71.45 : 127.25

pH

Component	Method Code	QC 3256	QC 3290	QC 3292	QC 3299	QC 3249	QC 3251
pH	TM133	102.85 95.29 : 105.24	102.98 95.29 : 105.24	103.41 95.29 : 105.24	101.92 96.39 : 106.35	100.35 96.39 : 106.35	101.8 96.39 : 106.35



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pH

Component	Method Code	QC 3253	QC 3255
pH	TM133	102.91 96.39 : 106.35	102.32 96.39 : 106.35

Total Organic Carbon

Component	Method Code	QC 3267	QC 3269	QC 3273	QC 3275	QC 3295	QC 3297
Total Organic Carbon	TM132	96.67 93.61 : 106.00	96.41 93.61 : 106.00	96.65 93.61 : 106.00	98.17 93.61 : 106.00	95.81 93.61 : 106.00	95.51 93.61 : 106.00

Component	Method Code	QC 3257
Total Organic Carbon	TM132	97.92 93.61 : 106.00

The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.

The figure detailed is the percentage recovery result for the AQC.

The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.



CERTIFICATE OF ANALYSIS

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Report Number: 786519
Location: Thornton Phase 3

Superseded Report: 784694

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.

Client: WSP UK Limited
Kings Orchard
2 Queen Street
Bristol
BS2 0HQ
UNITED KINGDOM

Certificate Code: AR-25-UD-491768-01
Page Number: Page 1 of 1
Reported On: 07/11/2025
PO reference: n/a
Reported By: Margaret Walker
Senior Analytical Services
Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481308 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-046
Your sample reference POUL-SP504-EGG4
Reference Number POUL-SP504-EGG4 **Production Date** 2025-10-14

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	1.8	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.26	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	4.5	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.019	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	6.6	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

Opinions and interpretations within this report are outside our accreditation scope.
Pass/Fail criteria or other comments where shown are based on specifications agreed with client or Eurofins general limits and do not take in to account measurement of uncertainty, unless stated
Unless otherwise stated, all results are expressed on a sample as received basis.
The laboratory is not responsible for the data provided by the customers. The data provided may affect the validity of the results.
This certificate of analysis shall not be reproduced except in full, without the written permission of the laboratory.

Key: cfu colony forming units
< denotes less than
> denotes greater than

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Certificate Code: AR-25-UD-491769-01
Page Number: Page 1 of 1
Reported On: 07/11/2025
PO reference: n/a
Reported By: Margaret Walker
Senior Analytical Services
Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481309 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-045
Your sample reference POUL-SP504-EGG3
Reference Number POUL-SP504-EGG3 **Production Date** 2025-10-14

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	2.0	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.31	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	5.5	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.024	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	7.8	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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Certificate Code: AR-25-UD-491770-01
Page Number: Page 1 of 1
Reported On: 07/11/2025
PO reference: n/a
Reported By: Margaret Walker
Senior Analytical Services
Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481310 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-077
Your sample reference POUL-SP513-EGG2
Reference Number POUL-SP513-EGG2 **Production Date** 2025-10-17

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	1.5	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.16	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	2.7	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.037	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	4.4	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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Certificate Code: AR-25-UD-491771-01
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Reported On: 07/11/2025
PO reference: n/a
Reported By: Margaret Walker
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Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481311 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-079
Your sample reference POUL-SP513-EGG4
Reference Number POUL-SP513-EGG4 **Production Date** 2025-10-17

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	1.6	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.18	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	4.2	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.036	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	6.0	µg/kg wet weight	

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Reported On: 07/11/2025
PO reference: n/a
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Certificate of Analysis

Sample number 400-2025-00481312 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-078
Your sample reference POUL-SP513-EGG3
Reference Number POUL-SP513-EGG3 **Production Date** 2025-10-17

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	1.4	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.14	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	2.8	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.030	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	4.4	µg/kg wet weight	

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PO reference: n/a
Reported By: Margaret Walker
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Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481313 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-074
Your sample reference POUL-SP512-EGG3
Reference Number POUL-SP512-EGG3 **Production Date** 2025-10-16

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	4.3	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.35	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	2.0	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.017	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	6.7	µg/kg wet weight	

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Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481314 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-076
Your sample reference POUL-SP513-EGG1
Reference Number POUL-SP513-EGG1 **Production Date** 2025-10-17

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	0.59	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.10	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	2.7	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.018	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	3.4	µg/kg wet weight	

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Certificate Code: AR-25-UD-491775-01
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Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481315 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-072
Your sample reference POUL-SP512-EGG1
Reference Number POUL-SP512-EGG1 **Production Date** 2025-10-16

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	3.8	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.38	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	2.6	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.019	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	6.8	µg/kg wet weight	

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PO reference: n/a
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Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481316 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-073
Your sample reference POUL-SP512-EGG2
Reference Number POUL-SP512-EGG2 **Production Date** 2025-10-16

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	3.3	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.29	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	2.0	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.020	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	5.6	µg/kg wet weight	

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Certificate of Analysis

Sample number 400-2025-00481319 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-044
Your sample reference POUL-SP504-EGG2
Reference Number POUL-SP504-EGG2 **Production Date** 2025-10-14

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	2.9	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.38	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	6.1	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.033	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	9.4	µg/kg wet weight	

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Certificate of Analysis

Sample number 400-2025-00481320 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-075
Your sample reference POUL-SP512-EGG4
Reference Number POUL-SP512-EGG4 **Production Date** 2025-10-16

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	3.2	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.32	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	1.8	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.018	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	5.3	µg/kg wet weight	

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Reported By: Margaret Walker
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Manager CUK003

Certificate of Analysis

Sample number 400-2025-00481321 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-043
Your sample reference POUL-SP504-EGG1
Reference Number POUL-SP504-EGG1 **Production Date** 2025-10-14

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	2.7	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.36	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	5.2	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.028	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	8.3	µg/kg wet weight	

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PO reference: n/a
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Analytical Services Manager
CUK003

Certificate of Analysis

Sample number 400-2025-00481318 **Received on** 22/10/2025
Analysis started on 24/10/2025

Customer Supplied Information

Your sample code 25-BIE-047
Your sample reference POUL-SP510-EGG1
Reference Number POUL-SP510-EGG1 **Production Date** 2025-10-14

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	15	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.94	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	5.1	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.031	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	21	µg/kg wet weight	

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Certificate Code: AR-25-UD-541078-01
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Reported On: 08/12/2025
PO reference: P117776UK001
Reported By: James Bate
Analytical Service Manager
CUK003

Certificate of Analysis

Sample number 400-2025-00536703 **Received on** 25/11/2025
Analysis started on 26/11/2025

Customer Supplied Information

Your sample code 25-BMD-532
Your sample reference POUL-SP513-EGG12
Additional information Duck. Please can we request reporting of branched and linear isomers separately – special request.
Production Date 2025-10-17
Reference Number POUL-SP513-EGG12

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	2.9	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.29	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	4.6	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.035	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	7.8	µg/kg wet weight	

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Reported On: 08/12/2025
PO reference: P117776UK001
Reported By: James Bate
Analytical Service Manager
CUK003

Certificate of Analysis

Sample number 400-2025-00536704 **Received on** 25/11/2025
Analysis started on 26/11/2025

Customer Supplied Information

Your sample code 25-BMD-530
Your sample reference POUL-SP513-EGG10
Additional information Chicken. Please can we request reporting of branched and linear isomers separately – special request.
Production Date 2025-10-17
Reference Number POUL-SP513-EGG10

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	1.5	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.34	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	8.4	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.073	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	10	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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This certificate of analysis shall not be reproduced except in full, without the written permission of the laboratory.

Key: cfu colony forming units
< denotes less than
> denotes greater than

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Regd in England No: 5009315

Client: WSP UK Limited
Kings Orchard
2 Queen Street
Bristol
BS2 0HQ
UNITED KINGDOM

Certificate Code: AR-25-UD-541080-01
Page Number: Page 1 of 1
Reported On: 08/12/2025
PO reference: P117776UK001
Reported By: James Bate
Analytical Service Manager
CUK003

Certificate of Analysis

Sample number 400-2025-00536705 **Received on** 25/11/2025
Analysis started on 26/11/2025

Customer Supplied Information

Your sample code 25-BMD-531
Your sample reference POUL-SP513-EGG11
Additional information Duck. Please can we request reporting of branched and linear isomers separately – special request.
Production Date 2025-10-17
Reference Number POUL-SP513-EGG11

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	1.7	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.20	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	3.7	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.030	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	5.6	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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UNITED KINGDOM

Certificate Code: AR-25-UD-541081-01
Page Number: Page 1 of 1
Reported On: 08/12/2025
PO reference: P117776UK001
Reported By: James Bate
Analytical Service Manager
CUK003

Certificate of Analysis

Sample number 400-2025-00536706 **Received on** 25/11/2025
Analysis started on 26/11/2025

Customer Supplied Information

Your sample code 25-BMD-533
Your sample reference POUL-SP513-EGG13
Additional information Duck. Please can we request reporting of branched and linear isomers separately – special request.
Production Date 2025-10-17
Reference Number POUL-SP513-EGG13

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	2.8	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	0.19	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	4.4	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.033	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	7.4	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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UNITED KINGDOM

Certificate Code: AR-26-UD-000426-01
Page Number: Page 1 of 1
Reported On: 02/01/2026
PO reference: P117776UK001
Reported By: Catherine Pardoe
Analytical Services Manager

Certificate of Analysis

Sample number 400-2025-00554949 **Received on** 05/12/2025
Analysis started on 08/12/2025

Customer Supplied Information

Your sample code 25-JKG-016
Your sample reference POUL-SP510-EGG3
Additional information Duck (x2 eggs). Please report PFOA branched and linear separately.
Production Date 2025-10-14
Reference Number POUL-SP510-EGG3

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	11	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	1.7	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	12	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.056	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	25	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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BS2 0HQ
UNITED KINGDOM

Certificate Code: AR-26-UD-000427-01
Page Number: Page 1 of 1
Reported On: 02/01/2026
PO reference: P117776UK001
Reported By: Catherine Pardoe
Analytical Services Manager

Certificate of Analysis

Sample number 400-2025-00554950 **Received on** 05/12/2025
Analysis started on 08/12/2025

Customer Supplied Information

Your sample code 25-JKG-015
Your sample reference POUL-SP510-EGG2
Additional information Duck (x2 eggs). Please report PFOA branched and linear separately.
Production Date 2025-10-14
Reference Number POUL-SP510-EGG2

Test Code	Analyte	Results	Units	Method Ref.
LW1YK	† PFOA (Perfluorooctanoic acid)	23	µg/kg wet weight	
LW1YQ	† PFNA (Perfluorononanoic acid)	2.0	µg/kg wet weight	
LW1YV	† PFOS (Perfluorooctanesulfonic acid)	21	µg/kg wet weight	
LW1Z2	† PFHxS (Perfluorohexanesulfonic acid)	0.27	µg/kg wet weight	
LW1Z6	† Sum of PFAS4 (EFSA) excl. LOQ	46	µg/kg wet weight	

† Indicates that the analysis was subcontracted and accredited to ISO 17025

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TEST REPORT RP-ENV-26/000008991

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP323-A, 0-0.1

Sampling information

Sampled by Customer - on 27/10/2025

follow test report No. RP-ENV-26/000008991

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,67±0,12	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	69,2±2,2	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,83±0,62	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,058±0,024	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP323-A, 0-0.1
Sampled by	Customer - on 27/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008991

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008992

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP311-A, 0.3-0.4

Sampling information

Sampled by Customer - on 30/10/2025

follow test report No. RP-ENV-26/000008992

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,318±0,057	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,8±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,11±0,38	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,029±0,017	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP311-A, 0.3-0.4
Sampled by	Customer - on 30/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008992

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

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Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008993

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP313-B, 0.1-0.2

Sampling information

Sampled by Customer - on 30/10/2025

follow test report No. RP-ENV-26/000008993

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	71,7±2,2	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,9±1,3	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,064±0,026	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP313-B, 0.1-0.2
Sampled by	Customer - on 30/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008993

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

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Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008994

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP313-E, 0.5-0.6

Sampling information

Sampled by Customer - on 30/10/2025

follow test report No. RP-ENV-26/000008994

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,88±0,52	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,6±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	12,3±4,2	µg/kg	0,0041	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,286±0,098	µg/kg	0,0041	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP313-E, 0.5-0.6
Sampled by	Customer - on 30/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008994

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008995

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP412-C, 0.3-0.4

Sampling information

Sampled by Customer - on 29/10/2025

follow test report No. RP-ENV-26/000008995

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,62±0,11	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,0±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,2±1,4	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,064±0,026	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP412-C, 0.3-0.4
Sampled by	Customer - on 29/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008995

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008996

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP306-E, 0.5-0.6

Sampling information

Sampled by Customer - on 28/10/2025

follow test report No. RP-ENV-26/000008996

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,67±0,48	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,5±1,8	µg/kg	0,0041	0,024	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,095±0,035	µg/kg	0,0041	0,024	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP306-E, 0.5-0.6
Sampled by	Customer - on 28/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008996

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008997

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP435-A, 0.4-0.5

Sampling information

Sampled by Customer - on 29/10/2025

follow test report No. RP-ENV-26/000008997

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,116±0,021	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,7±2,6	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,3±1,8	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,111±0,040	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP435-A, 0.4-0.5
Sampled by	Customer - on 29/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008997

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008998

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP436-A, 0.5-0.6

Sampling information

Sampled by Customer - on 29/10/2025

follow test report No. RP-ENV-26/000008998

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,89±0,64	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,023±0,017	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP436-A, 0.5-0.6
Sampled by	Customer - on 29/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008998

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008999

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP434-C, 0.3-0.4

Sampling information

Sampled by Customer - on 29/10/2025

follow test report No. RP-ENV-26/000008999

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,144±0,026	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	76,7±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,87±0,63	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,027±0,017	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP434-C, 0.3-0.4
Sampled by	Customer - on 29/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008999

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000009000

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0013
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP409-B, 0.2-0.3

Sampling information

Sampled by Customer - on 28/10/2025

follow test report No. RP-ENV-26/000009000

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,205±0,037	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,6±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,2±1,4	µg/kg	0,0043	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,045±0,021	µg/kg	0,0043	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP409-B, 0.2-0.3
Sampled by	Customer - on 28/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000009000

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000009001

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0014
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP306-B, 0-0.1

Sampling information

Sampled by Customer - on 28/10/2025

follow test report No. RP-ENV-26/000009001

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	4,79±0,86	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,6±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,69±0,91	µg/kg	0,0040	0,024	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,047±0,021	µg/kg	0,0040	0,024	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP306-B, 0-0.1
Sampled by	Customer - on 28/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000009001

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000009002

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0015
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP413-C, 0.5-0.6

Sampling information

Sampled by Customer - on 28/10/2025

follow test report No. RP-ENV-26/000009002

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,180±0,032	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,0±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,1±1,4	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,065±0,026	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP413-C, 0.5-0.6
Sampled by	Customer - on 28/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000009002

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000009003

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0016
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP330-G, 0.5-0.6

Sampling information

Sampled by Customer - on 06/11/2025

follow test report No. RP-ENV-26/000009003

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,143±0,026	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,7±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,4±1,5	µg/kg	0,0044	0,026	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,046±0,022	µg/kg	0,0044	0,026	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP330-G, 0.5-0.6
Sampled by	Customer - on 06/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000009003

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000009004

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0017
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP316-A, 0.1-0.2

Sampling information

Sampled by Customer - on 07/11/2025 12:55

follow test report No. RP-ENV-26/000009004

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,232±0,042	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,0±2,2	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,3±1,5	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,076±0,029	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP316-A, 0.1-0.2
Sampled by	Customer - on 07/11/2025 12:55
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000009004

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000009005

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0018
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP316-D, 0.1-0.2

Sampling information

Sampled by Customer - on 07/11/2025 12:55

follow test report No. RP-ENV-26/000009005

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	11,7±2,1	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,7±2,6	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,48±0,50	µg/kg	0,0037	0,022	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,047±0,020	µg/kg	0,0037	0,022	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP316-D, 0.1-0.2
Sampled by	Customer - on 07/11/2025 12:55
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000009005

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008965

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP406-A, 0.4-0.5

Sampling information

Sampled by Customer - on 05/11/2025

follow test report No. RP-ENV-26/000008965

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,84±0,33	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,1±2,4	g/100 g	0,10	0,10		03/12/2024 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,9±1,0	µg/kg	0,033	0,19	98,56#	11/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,026±0,017	µg/kg	0,0041	0,025	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP406-A, 0.4-0.5
Sampled by	Customer - on 05/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008965

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008966

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP330-D, 0-0.1

Sampling information

Sampled by Customer - on 06/11/2025

follow test report No. RP-ENV-26/000008966

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,384±0,069	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	74,2±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,8±1,3	µg/kg	0,033	0,20	98,56#	11/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,027±0,017	µg/kg	0,0042	0,025	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP330-D, 0-0.1
Sampled by	Customer - on 06/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008966

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008967

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP308-E, 0.1-0.2

Sampling information

Sampled by Customer - on 07/11/2025

follow test report No. RP-ENV-26/000008967

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	33,5±6,0	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,9±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,0±1,0	µg/kg	0,023	0,13	98,56#	11/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,060±0,022	µg/kg	0,0028	0,016	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP308-E, 0.1-0.2
Sampled by	Customer - on 07/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008967

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008968

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP420-A, 0.3-0.4

Sampling information

Sampled by Customer - on 05/11/2025

follow test report No. RP-ENV-26/000008968

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,85±0,33	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	74,5±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,5±1,9	µg/kg	0,033	0,19	98,56#	11/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,052±0,023	µg/kg	0,0042	0,025	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP420-A, 0.3-0.4
Sampled by	Customer - on 05/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008968

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008969

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP416-A, 0.4-0.5

Sampling information

Sampled by Customer - on 04/11/2025

follow test report No. RP-ENV-26/000008969

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,70±0,31	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,9±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	8,2±2,8	µg/kg	0,032	0,19	98,56#	11/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,092±0,034	µg/kg	0,0041	0,025	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP416-A, 0.4-0.5
Sampled by	Customer - on 04/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008969

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008970

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP427-C, 0.4-0.5

Sampling information

Sampled by Customer - on 04/11/2025

follow test report No. RP-ENV-26/000008970

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,106±0,019	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,6±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	0,76±0,26	µg/kg	0,0042	0,025	98,56#	10/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,010[0,0 0,025]	µg/kg	0,0042	0,025	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP427-C, 0.4-0.5
Sampled by	Customer - on 04/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008970

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008971

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP331-F, 0.2-0.3

Sampling information

Sampled by Customer - on 06/11/2025

follow test report No. RP-ENV-26/000008971

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	13,4±2,4	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	86,5±2,7	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,0±1,3	µg/kg	0,029	0,17	98,56#	11/12/2025 11/12/2025	RES *
Sum of PFOA (branched isomers)	0,068±0,026	µg/kg	0,0036	0,021	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP331-F, 0.2-0.3
Sampled by	Customer - on 06/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008971

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008972

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP429-B, 0.3-0.4

Sampling information

Sampled by Customer - on 05/11/2025

follow test report No. RP-ENV-26/000008972

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	11,6±2,1	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,2±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,2±1,1	µg/kg	0,029	0,17	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,028±0,016	µg/kg	0,0037	0,022	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP429-B, 0.3-0.4
Sampled by	Customer - on 05/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008972

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008973

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP308-A, 0.3-0.4

Sampling information

Sampled by Customer - on 07/11/2025

follow test report No. RP-ENV-26/000008973

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	23,8±4,3	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	85,7±2,7	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,6±1,6	µg/kg	0,025	0,15	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,112±0,039	µg/kg	0,0031	0,019	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP308-A, 0.3-0.4
Sampled by	Customer - on 07/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008973

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008974

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP437-B, 0.2-0.3

Sampling information

Sampled by Customer - on 03/11/2025

follow test report No. RP-ENV-26/000008974

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	9,3±1,7	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,56±0,54	µg/kg	0,030	0,18	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,023±0,015	µg/kg	0,0038	0,023	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP437-B, 0.2-0.3
Sampled by	Customer - on 03/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008974

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008975

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP331-C, 0.2-0.3

Sampling information

Sampled by Customer - on 06/11/2025

follow test report No. RP-ENV-26/000008975

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	12,4±2,2	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,4±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,5±1,5	µg/kg	0,030	0,18	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,065±0,025	µg/kg	0,0036	0,022	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP331-C, 0.2-0.3
Sampled by	Customer - on 06/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008975

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008976

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP305-C, 0-0.1

Sampling information

Sampled by Customer - on 03/11/2025

follow test report No. RP-ENV-26/000008976

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	6,3±1,1	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,4±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,1±1,0	µg/kg	0,031	0,18	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,072±0,028	µg/kg	0,0040	0,024	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP305-C, 0-0.1
Sampled by	Customer - on 03/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008976

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008977

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104545-0013
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP316-E, 0.2-0.3

Sampling information

Sampled by Customer - on 07/11/2025

follow test report No. RP-ENV-26/000008977

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	17,7±3,2	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,8±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,1±1,7	µg/kg	0,028	0,17	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,069±0,026	µg/kg	0,0035	0,021	98,56#	10/12/2025 11/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP316-E, 0.2-0.3
Sampled by	Customer - on 07/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008977

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008940

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104546-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP417 / 0.4-0.5

Sampling information

Sampled by Customer - on 09/10/2025

follow test report No. RP-ENV-26/000008940

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		11/12/2025 12/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,2±2,6	g/100 g	0,10	0,10		11/12/2025 12/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,88±0,97	µg/kg	0,0036	0,022	98,56#	17/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,045±0,020	µg/kg	0,0036	0,022	98,56#	17/12/2025 18/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP417 / 0.4-0.5
Sampled by	Customer - on 09/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008940

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008941

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104546-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP334-G / 0.1-0.2

Sampling information

Sampled by Customer - on 10/10/2025

follow test report No. RP-ENV-26/000008941

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,480±0,086	g/100 g	0,10	0,10		11/12/2025 12/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	6,73±0,21	g/100 g	0,10	0,10		11/12/2025 12/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	27,0±9,1	µg/kg	0,042	0,25	98,56#	17/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,32±0,18	µg/kg	0,042	0,25	98,56#	17/12/2025 18/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP334-G / 0.1-0.2
Sampled by	Customer - on 10/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008941

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008942

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104546-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP334-B / 0.2-0.3

Sampling information

Sampled by Customer - on 10/10/2025

follow test report No. RP-ENV-26/000008942

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		11/12/2025 12/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,8±2,4	g/100 g	0,10	0,10		11/12/2025 12/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,7±1,6	µg/kg	0,0036	0,021	98,56#	17/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,074±0,028	µg/kg	0,0036	0,021	98,56#	17/12/2025 18/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP334-B / 0.2-0.3
Sampled by	Customer - on 10/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008942

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008943

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP504-E, 0.4-0.5

Sampling information

Sampled by Customer - on 14/10/2025

follow test report No. RP-ENV-26/000008943

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	5,43±0,98	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	10,3±3,5	µg/kg	0,031	0,18	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,181±0,063	µg/kg	0,0039	0,023	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP504-E, 0.4-0.5
Sampled by	Customer - on 14/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008943

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008944

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP411-B, 0.4-0.5

Sampling information

Sampled by Customer - on 15/10/2025

follow test report No. RP-ENV-26/000008944

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	9,0±1,6	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	66,1±2,1	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	21,2±7,1	µg/kg	0,031	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,38±0,13	µg/kg	0,0039	0,023	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP411-B, 0.4-0.5
Sampled by	Customer - on 15/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008944

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008945

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP504-G, 0.4-0.5

Sampling information

Sampled by Customer - on 14/10/2025

follow test report No. RP-ENV-26/000008945

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,50±0,63	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,6±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,8±1,3	µg/kg	0,032	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,070±0,027	µg/kg	0,0040	0,024	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP504-G, 0.4-0.5
Sampled by	Customer - on 14/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008945

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008946

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP510-C, 0-0.1

Sampling information

Sampled by Customer - on 13/10/2025

follow test report No. RP-ENV-26/000008946

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	47,0±8,5	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,5±2,6	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	7,7±2,6	µg/kg	0,017	0,10	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,36±0,12	µg/kg	0,0022	0,013	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP510-C, 0-0.1
Sampled by	Customer - on 13/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008946

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008947

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP510-B, 0.1-0.2

Sampling information

Sampled by Customer - on 13/10/2025

follow test report No. RP-ENV-26/000008947

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	30,9±5,6	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	83,6±2,6	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	13,2±4,4	µg/kg	0,023	0,13	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,44±0,15	µg/kg	0,0029	0,017	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP510-B, 0.1-0.2
Sampled by	Customer - on 13/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008947

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008948

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP512-C, 0-0.1

Sampling information

Sampled by Customer - on 16/10/2025

follow test report No. RP-ENV-26/000008948

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,1±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,2±1,8	µg/kg	0,033	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,065±0,026	µg/kg	0,0042	0,025	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP512-C, 0-0.1
Sampled by	Customer - on 16/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008948

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008949

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP410-A, 0.3-0.4

Sampling information

Sampled by Customer - on 16/10/2025

follow test report No. RP-ENV-26/000008949

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	17,3±3,1	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,3±1,1	µg/kg	0,027	0,16	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,047±0,020	µg/kg	0,0035	0,021	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP410-A, 0.3-0.4
Sampled by	Customer - on 16/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008949

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008950

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP441-A, 0.4-0.5

Sampling information

Sampled by Customer - on 16/10/2025

follow test report No. RP-ENV-26/000008950

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	16,3±2,9	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	87,0±2,7	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,2±1,1	µg/kg	0,028	0,16	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,059±0,023	µg/kg	0,0035	0,021	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP441-A, 0.4-0.5
Sampled by	Customer - on 16/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008950

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008951

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP401-B, 0.4-0.5

Sampling information

Sampled by Customer - on 16/10/2025

follow test report No. RP-ENV-26/000008951

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,174±0,031	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,2±2,3	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,58±0,55	µg/kg	0,033	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,024±0,017	µg/kg	0,0042	0,025	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP401-B, 0.4-0.5
Sampled by	Customer - on 16/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008951

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008952

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP513-A, 0.3-0.4

Sampling information

Sampled by Customer - on 16/10/2025

follow test report No. RP-ENV-26/000008952

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,58±0,29	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	76,9±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,4±1,2	µg/kg	0,033	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,052±0,023	µg/kg	0,0041	0,025	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP513-A, 0.3-0.4
Sampled by	Customer - on 16/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008952

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008953

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP513-G, 0.1-0.2

Sampling information

Sampled by Customer - on 17/10/2025

follow test report No. RP-ENV-26/000008953

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	30,4±5,5	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	76,0±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,45±0,83	µg/kg	0,025	0,15	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,062±0,023	µg/kg	0,0031	0,018	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP513-G, 0.1-0.2
Sampled by	Customer - on 17/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008953

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008954

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104547-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP513-D, 0-0.1

Sampling information

Sampled by Customer - on 17/10/2025

follow test report No. RP-ENV-26/000008954

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,264±0,047	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	76,3±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,3±1,1	µg/kg	0,033	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,068±0,027	µg/kg	0,0043	0,025	98,56#	10/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP513-D, 0-0.1
Sampled by	Customer - on 17/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008954

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008955

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP320 / 0.4-0.5

Sampling information

Sampled by Customer - on 06/10/2025

follow test report No. RP-ENV-26/000008955

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,25±0,40	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,2±2,3	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	11,6±3,9	µg/kg	0,036	0,21	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,128±0,046	µg/kg	0,0043	0,025	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP320 / 0.4-0.5
Sampled by	Customer - on 06/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008955

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008956

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP309 / 0.5-0.6

Sampling information

Sampled by Customer - on 08/10/2025

follow test report No. RP-ENV-26/000008956

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,96±0,35	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,2±2,4	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	6,7±2,3	µg/kg	0,029	0,17	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,117±0,042	µg/kg	0,0041	0,025	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP309 / 0.5-0.6
Sampled by	Customer - on 08/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008956

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008957

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP317-S1 / 0.1-0.2

Sampling information

Sampled by Customer - on 09/10/2025

follow test report No. RP-ENV-26/000008957

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	19,7±3,6	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,8±2,6	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,7±1,6	µg/kg	0,025	0,15	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,033±0,016	µg/kg	0,0035	0,021	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP317-S1 / 0.1-0.2
Sampled by	Customer - on 09/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008957

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008958

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP313 / 0.2-0.3

Sampling information

Sampled by Customer - on 07/10/2025

follow test report No. RP-ENV-26/000008958

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	9,6±1,7	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	83,1±2,6	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,5±1,9	µg/kg	0,031	0,18	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,082±0,031	µg/kg	0,0039	0,023	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP313 / 0.2-0.3
Sampled by	Customer - on 07/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008958

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008959

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP324 / 0.2-0.3

Sampling information

Sampled by Customer - on 07/10/2025

follow test report No. RP-ENV-26/000008959

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,49±0,63	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	68,8±2,1	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,6±1,6	µg/kg	0,023	0,14	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,036±0,019	µg/kg	0,0044	0,026	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP324 / 0.2-0.3
Sampled by	Customer - on 07/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008959

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008960

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP323 / 0-0.1

Sampling information

Sampled by Customer - on 07/10/2025

follow test report No. RP-ENV-26/000008960

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,14±0,39	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,4±2,3	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,9±1,0	µg/kg	0,032	0,19	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,168±0,059	µg/kg	0,0041	0,024	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP323 / 0-0.1
Sampled by	Customer - on 07/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008960

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008961

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP302 / 0.4-0.5

Sampling information

Sampled by Customer - on 08/10/2025

follow test report No. RP-ENV-26/000008961

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,76±0,14	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	70,5±2,2	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	13,3±4,5	µg/kg	0,036	0,21	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,127±0,045	µg/kg	0,0042	0,025	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP302 / 0.4-0.5
Sampled by	Customer - on 08/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008961

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008962

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP308-S2 / 0.2-0.3

Sampling information

Sampled by Customer - on 07/10/2025

follow test report No. RP-ENV-26/000008962

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,06±0,19	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,2±2,4	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	10,5±3,6	µg/kg	0,033	0,20	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,160±0,056	µg/kg	0,0042	0,025	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP308-S2 / 0.2-0.3
Sampled by	Customer - on 07/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008962

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008963

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP328-S2 / 0-0.1

Sampling information

Sampled by Customer - on 06/10/2025

follow test report No. RP-ENV-26/000008963

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,13±0,20	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	70,4±2,2	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,4±1,8	µg/kg	0,035	0,21	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,048±0,022	µg/kg	0,0043	0,026	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP328-S2 / 0-0.1
Sampled by	Customer - on 06/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008963

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008964

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105339-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description LP33-SP317-S2 / 0.1-0.2

Sampling information

Sampled by Customer - on 09/10/2025

follow test report No. RP-ENV-26/000008964

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	12,1±2,2	g/100 g	0,10	0,10		17/12/2025 18/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,9±2,6	g/100 g	0,10	0,10		17/12/2025 17/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,7±1,2	µg/kg	0,028	0,17	98,56#	18/12/2025 19/12/2025	RES *
Sum of PFOA (branched isomers)	0,024±0,015	µg/kg	0,0035	0,021	98,56#	18/12/2025 19/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	LP33-SP317-S2 / 0.1-0.2
Sampled by	Customer - on 09/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008964

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008922

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP318-A, 0.1-0.2

Sampling information

Sampled by Customer - on 18/11/2025

follow test report No. RP-ENV-26/000008922

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,32±0,24	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,0±2,4	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,5±1,5	µg/kg	0,034	0,20	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,067±0,028	µg/kg	0,0046	0,027	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP318-A, 0.1-0.2
Sampled by	Customer - on 18/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008922

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008923

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP301-G, 0-0.1

Sampling information

Sampled by Customer - on 19/11/2025

follow test report No. RP-ENV-26/000008923

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,27±0,41	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	74,6±2,3	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,0±1,4	µg/kg	0,031	0,19	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,098±0,036	µg/kg	0,0041	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP301-G, 0-0.1
Sampled by	Customer - on 19/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008923

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008924

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP301-D, 0.2-0.3

Sampling information

Sampled by Customer - on 19/11/2025

follow test report No. RP-ENV-26/000008924

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,44±0,26	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,9±2,5	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	6,8±2,3	µg/kg	0,037	0,22	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,161±0,057	µg/kg	0,0049	0,029	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP301-D, 0.2-0.3
Sampled by	Customer - on 19/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008924

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008925

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP301-A, 0-0.1

Sampling information

Sampled by Customer - on 19/11/2025

follow test report No. RP-ENV-26/000008925

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,58±0,28	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,1±2,3	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	6,0±2,0	µg/kg	0,041	0,24	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,119±0,044	µg/kg	0,0053	0,032	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP301-A, 0-0.1
Sampled by	Customer - on 19/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008925

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008926

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP309-F, 0.1-0.2

Sampling information

Sampled by Customer - on 20/11/2025

follow test report No. RP-ENV-26/000008926

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,88±0,16	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,9±2,5	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,64±0,57	µg/kg	0,035	0,21	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,043±0,021	µg/kg	0,0044	0,026	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP309-F, 0.1-0.2
Sampled by	Customer - on 20/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008926

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008927

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP309-A, 0.2-0.3

Sampling information

Sampled by Customer - on 20/11/2025

follow test report No. RP-ENV-26/000008927

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,55±0,46	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	85,5±2,7	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,13±0,38	µg/kg	0,0040	0,024	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,029±0,017	µg/kg	0,0040	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP309-A, 0.2-0.3
Sampled by	Customer - on 20/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008927

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008928

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP439-C, 0-0.1

Sampling information

Sampled by Customer - on 12/11/2025

follow test report No. RP-ENV-26/000008928

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	4,60±0,83	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	69,9±2,2	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,4±1,8	µg/kg	0,032	0,19	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,022±0,016	µg/kg	0,0040	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP439-C, 0-0.1
Sampled by	Customer - on 12/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008928

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008929

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP430-B, 0.3-0.4

Sampling information

Sampled by Customer - on 13/11/2025

follow test report No. RP-ENV-26/000008929

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	13,8±2,5	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,7±2,3	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,4±1,1	µg/kg	0,029	0,17	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,058±0,023	µg/kg	0,0036	0,022	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP430-B, 0.3-0.4
Sampled by	Customer - on 13/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008929

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008930

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP304-G, 0.2-0.3

Sampling information

Sampled by Customer - on 24/10/2025

follow test report No. RP-ENV-26/000008930

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,03±0,55	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,3±2,6	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,94±0,67	µg/kg	0,032	0,19	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,055±0,023	µg/kg	0,0041	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP304-G, 0.2-0.3
Sampled by	Customer - on 24/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008930

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008931

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP304-D, 0.2-0.3

Sampling information

Sampled by Customer - on 24/10/2025

follow test report No. RP-ENV-26/000008931

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,13±0,38	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	85,1±2,7	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,22±0,76	µg/kg	0,032	0,19	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,082±0,031	µg/kg	0,0041	0,025	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP304-D, 0.2-0.3
Sampled by	Customer - on 24/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008931

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008932

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP304-B, 0-0.1

Sampling information

Sampled by Customer - on 24/10/2025

follow test report No. RP-ENV-26/000008932

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	5,34±0,96	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,6±2,6	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,63±0,89	µg/kg	0,030	0,18	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,068±0,027	µg/kg	0,0040	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP304-B, 0-0.1
Sampled by	Customer - on 24/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008932

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008933

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP421-B, 0.5-0.6

Sampling information

Sampled by Customer - on 21/10/2025

follow test report No. RP-ENV-26/000008933

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,94±0,53	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,7±2,5	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	0,91±0,31	µg/kg	0,0041	0,024	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,020±0,016	µg/kg	0,0041	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP421-B, 0.5-0.6
Sampled by	Customer - on 21/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008933

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008934

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0013
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP328-B, 0-0.1

Sampling information

Sampled by Customer - on 21/10/2025

follow test report No. RP-ENV-26/000008934

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,69±0,30	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	69,6±2,2	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,8±1,3	µg/kg	0,033	0,20	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,036±0,019	µg/kg	0,0041	0,025	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP328-B, 0-0.1
Sampled by	Customer - on 21/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008934

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008935

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0014
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP426-B, 0.4-0.5

Sampling information

Sampled by Customer - on 21/10/2025

follow test report No. RP-ENV-26/000008935

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,15±0,21	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,0±2,5	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,02±0,69	µg/kg	0,032	0,19	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,018±0,015	µg/kg	0,0042	0,025	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP426-B, 0.4-0.5
Sampled by	Customer - on 21/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008935

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008936

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0015
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP335-G, 0-0.1

Sampling information

Sampled by Customer - on 22/10/2025

follow test report No. RP-ENV-26/000008936

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,09±0,20	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,6±2,5	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,2±1,1	µg/kg	0,032	0,19	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,042±0,020	µg/kg	0,0041	0,024	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP335-G, 0-0.1
Sampled by	Customer - on 22/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008936

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008937

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0016
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP326-A, 0.5-0.6

Sampling information

Sampled by Customer - on 24/10/2025

follow test report No. RP-ENV-26/000008937

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,35±0,24	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,3±2,6	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,6±1,2	µg/kg	0,037	0,22	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,044±0,022	µg/kg	0,0048	0,029	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP326-A, 0.5-0.6
Sampled by	Customer - on 24/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008937

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008938

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0017
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP327-C, 0.2-0.3

Sampling information

Sampled by Customer - on 20/10/2025

follow test report No. RP-ENV-26/000008938

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	15,3±2,8	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,6±2,6	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	1,52±0,52	µg/kg	0,029	0,17	98,56#	16/12/2025 18/12/2025	RES *
Sum of PFOA (branched isomers)	0,016±0,014	µg/kg	0,0037	0,022	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP327-C, 0.2-0.3
Sampled by	Customer - on 20/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008938

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008939

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105340-0018
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP327-E, 0.3-0.4

Sampling information

Sampled by Customer - on 20/10/2025

follow test report No. RP-ENV-26/000008939

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	10,7±1,9	g/100 g	0,10	0,10		16/12/2025 17/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	90,3±2,8	g/100 g	0,10	0,10		16/12/2025 16/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	0,58±0,20	µg/kg	0,0037	0,022	98,56#	16/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,018±0,014	µg/kg	0,0037	0,022	98,56#	16/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP327-E, 0.3-0.4
Sampled by	Customer - on 20/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008939

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008904

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP310-A, 0.5-0.6

Sampling information

Sampled by Customer - on 11/11/2025

follow test report No. RP-ENV-26/000008904

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,91±0,52	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,2±2,6	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	24,8±8,4	µg/kg	0,032	0,19	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	1,01±0,34	µg/kg	0,0041	0,024	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP310-A, 0.5-0.6
Sampled by	Customer - on 11/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008904

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008905

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP314-E, 0.2-0.3

Sampling information

Sampled by Customer - on 12/11/2025

follow test report No. RP-ENV-26/000008905

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	4,56±0,82	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,5±2,5	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,22±0,76	µg/kg	0,033	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,035±0,018	µg/kg	0,0041	0,024	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP314-E, 0.2-0.3
Sampled by	Customer - on 12/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008905

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008906

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP310-C, 0.3-0.4

Sampling information

Sampled by Customer - on 11/11/2025

follow test report No. RP-ENV-26/000008906

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	23,9±4,3	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,9±2,5	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	6,6±2,2	µg/kg	0,026	0,16	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,210±0,072	µg/kg	0,0033	0,020	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP310-C, 0.3-0.4
Sampled by	Customer - on 11/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008906

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008907

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP303-F, 0.2-0.3

Sampling information

Sampled by Customer - on 10/11/2025

follow test report No. RP-ENV-26/000008907

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,1±2,4	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,3±1,1	µg/kg	0,034	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,043±0,021	µg/kg	0,0042	0,025	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP303-F, 0.2-0.3
Sampled by	Customer - on 10/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008907

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008908

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP315-C, 0-0.1

Sampling information

Sampled by Customer - on 11/11/2025

follow test report No. RP-ENV-26/000008908

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	8,8±1,6	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	74,7±2,3	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	14,2±4,8	µg/kg	0,032	0,19	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,35±0,12	µg/kg	0,0041	0,024	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP315-C, 0-0.1
Sampled by	Customer - on 11/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008908

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008909

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP314-C, 0.1-0.2

Sampling information

Sampled by Customer - on 12/11/2025

follow test report No. RP-ENV-26/000008909

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,2±2,3	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,8±1,6	µg/kg	0,035	0,21	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,055±0,024	µg/kg	0,0044	0,026	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP314-C, 0.1-0.2
Sampled by	Customer - on 12/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008909

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008910

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP303-A, 0.4-0.5

Sampling information

Sampled by Customer - on 10/11/2025

follow test report No. RP-ENV-26/000008910

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,235±0,042	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,4±2,5	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,0±1,4	µg/kg	0,034	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,063±0,026	µg/kg	0,0043	0,025	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP303-A, 0.4-0.5
Sampled by	Customer - on 10/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008910

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008911

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP315-E, 0.4-0.5

Sampling information

Sampled by Customer - on 11/11/2025

follow test report No. RP-ENV-26/000008911

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	22,4±4,0	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,2±2,6	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,5±1,5	µg/kg	0,026	0,16	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,103±0,037	µg/kg	0,0033	0,020	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP315-E, 0.4-0.5
Sampled by	Customer - on 11/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008911

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008912

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP317-D, 0-0.1

Sampling information

Sampled by Customer - on 10/11/2025

follow test report No. RP-ENV-26/000008912

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,60±0,29	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,4±2,3	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	6,8±2,3	µg/kg	0,034	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,141±0,050	µg/kg	0,0043	0,025	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP317-D, 0-0.1
Sampled by	Customer - on 10/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008912

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008913

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP317-A, 0.2-0.3

Sampling information

Sampled by Customer - on 10/11/2025

follow test report No. RP-ENV-26/000008913

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,84±0,69	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	74,8±2,3	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,9±2,0	µg/kg	0,033	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,049±0,022	µg/kg	0,0042	0,025	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP317-A, 0.2-0.3
Sampled by	Customer - on 10/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008913

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008914

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP324-C, 0.4-0.5

Sampling information

Sampled by Customer - on 31/10/2025

follow test report No. RP-ENV-26/000008914

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,6±2,4	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,5±1,5	µg/kg	0,035	0,21	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,072±0,029	µg/kg	0,0044	0,026	98,56#	15/12/2025 16/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP324-C, 0.4-0.5
Sampled by	Customer - on 31/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008914

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008915

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP324-E, 0.2-0.3

Sampling information

Sampled by Customer - on 31/10/2025

follow test report No. RP-ENV-26/000008915

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,80±0,14	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,1±2,2	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,0±1,4	µg/kg	0,035	0,21	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,056±0,024	µg/kg	0,0044	0,026	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP324-E, 0.2-0.3
Sampled by	Customer - on 31/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008915

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008916

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0013
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP324-B, 0.1-0.2

Sampling information

Sampled by Customer - on 31/10/2025

follow test report No. RP-ENV-26/000008916

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	15,4±2,8	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,7±2,4	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,1±1,0	µg/kg	0,031	0,18	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,029±0,017	µg/kg	0,0039	0,023	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP324-B, 0.1-0.2
Sampled by	Customer - on 31/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008916

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008917

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0014
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP311-E, 0.4-0.5

Sampling information

Sampled by Customer - on 30/10/2025

follow test report No. RP-ENV-26/000008917

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	17,7±3,2	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	84,9±2,6	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,7±1,9	µg/kg	0,027	0,16	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,071±0,027	µg/kg	0,0035	0,021	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP311-E, 0.4-0.5
Sampled by	Customer - on 30/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008917

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008918

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0015
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP307-F, 0.2-0.3

Sampling information

Sampled by Customer - on 31/10/2025

follow test report No. RP-ENV-26/000008918

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	6,3±1,1	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,9±2,5	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,4±1,5	µg/kg	0,031	0,19	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,123±0,044	µg/kg	0,0040	0,024	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP307-F, 0.2-0.3
Sampled by	Customer - on 31/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008918

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008919

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0016
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP307-C, 0.4-0.5

Sampling information

Sampled by Customer - on 31/10/2025

follow test report No. RP-ENV-26/000008919

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,438±0,079	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	76,9±2,4	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,0±1,7	µg/kg	0,033	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,132±0,047	µg/kg	0,0042	0,025	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP307-C, 0.4-0.5
Sampled by	Customer - on 31/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008919

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008920

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0017
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP323-D, 0.3-0.4

Sampling information

Sampled by Customer - on 27/10/2025

follow test report No. RP-ENV-26/000008920

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,388±0,070	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,4±2,5	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,0±1,7	µg/kg	0,033	0,20	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,041±0,020	µg/kg	0,0042	0,025	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP323-D, 0.3-0.4
Sampled by	Customer - on 27/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008920

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008921

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105369-0018
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP323-C, 0.3-0.4

Sampling information

Sampled by Customer - on 27/10/2025

follow test report No. RP-ENV-26/000008921

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	<0,10	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	75,8±2,4	g/100 g	0,10	0,10		10/12/2025 11/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,2±1,4	µg/kg	0,035	0,21	98,56#	15/12/2025 17/12/2025	RES *
Sum of PFOA (branched isomers)	0,084±0,032	µg/kg	0,0045	0,027	98,56#	15/12/2025 17/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP323-C, 0.3-0.4
Sampled by	Customer - on 27/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008921

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008891

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP332-A / 0.1-0.2

Sampling information

Sampled by Customer - on 20/10/2025

follow test report No. RP-ENV-26/000008891

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,308±0,055	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,3±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,2±1,8	µg/kg	0,033	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,074±0,029	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP332-A / 0.1-0.2
Sampled by	Customer - on 20/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008891

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008892

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP333-F / 0.1-0.2

Sampling information

Sampled by Customer - on 23/10/2025

follow test report No. RP-ENV-26/000008892

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,166±0,030	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,7±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,8±1,6	µg/kg	0,035	0,21	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,076±0,030	µg/kg	0,0045	0,027	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP333-F / 0.1-0.2
Sampled by	Customer - on 23/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008892

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008893

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP326-E / 0.5-0.6

Sampling information

Sampled by Customer - on 24/10/2025

follow test report No. RP-ENV-26/000008893

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	4,83±0,87	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,9±2,6	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,0±1,0	µg/kg	0,031	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,055±0,023	µg/kg	0,0039	0,023	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP326-E / 0.5-0.6
Sampled by	Customer - on 24/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008893

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008894

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP328-F / 0-0.1

Sampling information

Sampled by Customer - on 21/10/2025

follow test report No. RP-ENV-26/000008894

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,89±0,16	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	71,7±2,2	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,5±1,9	µg/kg	0,033	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,112±0,041	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP328-F / 0-0.1
Sampled by	Customer - on 21/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008894

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008895

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP333-A / 0.4-0.5

Sampling information

Sampled by Customer - on 23/10/2025

follow test report No. RP-ENV-26/000008895

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,140±0,025	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	67,2±2,1	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,4±1,8	µg/kg	0,034	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,096±0,035	µg/kg	0,0043	0,026	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP333-A / 0.4-0.5
Sampled by	Customer - on 23/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008895

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008896

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP326-F / 0.2-0.3

Sampling information

Sampled by Customer - on 24/10/2025

follow test report No. RP-ENV-26/000008896

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	5,20±0,94	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,9±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,1±1,4	µg/kg	0,032	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,051±0,022	µg/kg	0,0040	0,024	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP326-F / 0.2-0.3
Sampled by	Customer - on 24/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008896

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008897

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP332-D / 0.4-0.5

Sampling information

Sampled by Customer - on 22/10/2025

follow test report No. RP-ENV-26/000008897

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,352±0,063	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,9±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,4±1,5	µg/kg	0,033	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,042±0,020	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP332-D / 0.4-0.5
Sampled by	Customer - on 22/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008897

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008898

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP332-G / 0.5-0.6

Sampling information

Sampled by Customer - on 22/10/2025

follow test report No. RP-ENV-26/000008898

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,208±0,038	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,1±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,9±1,0	µg/kg	0,032	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,058±0,024	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP332-G / 0.5-0.6
Sampled by	Customer - on 22/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008898

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008899

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP328-C / 0.5-0.6

Sampling information

Sampled by Customer - on 21/10/2025

follow test report No. RP-ENV-26/000008899

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,61±0,11	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,2±1,4	µg/kg	0,033	0,19	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,059±0,025	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP328-C / 0.5-0.6
Sampled by	Customer - on 21/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008899

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008900

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP322-C / 0-0.1

Sampling information

Sampled by Customer - on 20/10/2025

follow test report No. RP-ENV-26/000008900

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,150±0,027	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,3±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,3±1,5	µg/kg	0,033	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,048±0,022	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP322-C / 0-0.1
Sampled by	Customer - on 20/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008900

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

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Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008901

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP335-C / 0.2-0.3

Sampling information

Sampled by Customer - on 22/10/2025

follow test report No. RP-ENV-26/000008901

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,175±0,031	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,0±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	10,7±3,6	µg/kg	0,034	0,20	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,173±0,060	µg/kg	0,0042	0,025	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP335-C / 0.2-0.3
Sampled by	Customer - on 22/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008901

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008902

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP321-A / 0.2-0.3

Sampling information

Sampled by Customer - on 23/10/2025

follow test report No. RP-ENV-26/000008902

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	13,5±2,4	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	76,8±2,4	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,4±1,5	µg/kg	0,028	0,17	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,050±0,021	µg/kg	0,0037	0,022	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP321-A / 0.2-0.3
Sampled by	Customer - on 23/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008902

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008903

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105370-0013
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP321-D / 0.5-0.6

Sampling information

Sampled by Customer - on 23/10/2025

follow test report No. RP-ENV-26/000008903

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	9,7±1,7	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,1±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,3±1,1	µg/kg	0,030	0,18	98,56#	11/12/2025 12/12/2025	RES *
Sum of PFOA (branched isomers)	0,035±0,017	µg/kg	0,0038	0,023	98,56#	11/12/2025 12/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP321-D / 0.5-0.6
Sampled by	Customer - on 23/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008903

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008873

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP422-C, 0.5-0.6

Sampling information

Sampled by Customer - on 18/11/2025

follow test report No. RP-ENV-26/000008873

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	6,7±1,2	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	83,2±2,6	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,20±0,75	µg/kg	0,031	0,19	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,058±0,024	µg/kg	0,0042	0,025	98,56#	23/12/2025 24/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP422-C, 0.5-0.6
Sampled by	Customer - on 18/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008873

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008874

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP419-E, 0.4-0.5

Sampling information

Sampled by Customer - on 17/11/2025

follow test report No. RP-ENV-26/000008874

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	4,61±0,83	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	78,2±2,4	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	13,6±4,6	µg/kg	0,031	0,18	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,32±0,11	µg/kg	0,0042	0,025	98,56#	23/12/2025 24/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP419-E, 0.4-0.5
Sampled by	Customer - on 17/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008874

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008875

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP319-B, 0.1-0.2

Sampling information

Sampled by Customer - on 13/11/2025

follow test report No. RP-ENV-26/000008875

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,43±0,26	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,8±2,6	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,6±1,5	µg/kg	0,031	0,19	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,109±0,040	µg/kg	0,0042	0,025	98,56#	23/12/2025 24/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP319-B, 0.1-0.2
Sampled by	Customer - on 13/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008875

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008876

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0004
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP319-F, 0.2-0.3

Sampling information

Sampled by Customer - on 13/11/2025

follow test report No. RP-ENV-26/000008876

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	13,0±2,3	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	80,9±2,5	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,54±0,86	µg/kg	0,026	0,15	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,040±0,019	µg/kg	0,0038	0,023	98,56#	23/12/2025 24/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP319-F, 0.2-0.3
Sampled by	Customer - on 13/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008876

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008877

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0005
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP403-B, 0.3-0.4

Sampling information

Sampled by Customer - on 19/11/2025

follow test report No. RP-ENV-26/000008877

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	8,9±1,6	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	72,9±2,3	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,7±1,6	µg/kg	0,030	0,18	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,042±0,020	µg/kg	0,0041	0,024	98,56#	23/12/2025 24/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP403-B, 0.3-0.4
Sampled by	Customer - on 19/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008877

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008878

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0006
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP442-B, 0.5-0.6

Sampling information

Sampled by Customer - on 13/11/2025

follow test report No. RP-ENV-26/000008878

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,13±0,56	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,1±2,5	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,1±1,0	µg/kg	0,030	0,18	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,030±0,017	µg/kg	0,0042	0,025	98,56#	23/12/2025 24/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP442-B, 0.5-0.6
Sampled by	Customer - on 13/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008878

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008879

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0007
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP423-A, 0-0.1

Sampling information

Sampled by Customer - on 14/11/2025

follow test report No. RP-ENV-26/000008879

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	7,5±1,4	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,1±2,4	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,06±0,70	µg/kg	0,030	0,18	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,053±0,023	µg/kg	0,0042	0,025	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP423-A, 0-0.1
Sampled by	Customer - on 14/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008879

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008880

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0008
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description POUL-SP511-E, 0.1-0.2

Sampling information

Sampled by Customer - on 18/11/2025

follow test report No. RP-ENV-26/000008880

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,98±0,18	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,3±2,3	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	6,3±2,1	µg/kg	0,035	0,21	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,063±0,026	µg/kg	0,0044	0,026	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	POUL-SP511-E, 0.1-0.2
Sampled by	Customer - on 18/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008880

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008881

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0009
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP302-C, 0.5-0.6

Sampling information

Sampled by Customer - on 14/11/2025

follow test report No. RP-ENV-26/000008881

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	5,7±1,0	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,5±2,5	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,4±1,5	µg/kg	0,031	0,18	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,089±0,033	µg/kg	0,0041	0,024	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP302-C, 0.5-0.6
Sampled by	Customer - on 14/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008881

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008882

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0010
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP438-A, 0.1-0.2

Sampling information

Sampled by Customer - on 12/11/2025

follow test report No. RP-ENV-26/000008882

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	6,3±1,1	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	82,9±2,6	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,91±0,98	µg/kg	0,0040	0,024	98,56#	23/12/2025 25/12/2025	RES *
Sum of PFOA (branched isomers)	0,032±0,017	µg/kg	0,0040	0,024	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP438-A, 0.1-0.2
Sampled by	Customer - on 12/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008882

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008883

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0011
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP320-E, 0.1-0.2

Sampling information

Sampled by Customer - on 17/11/2025

follow test report No. RP-ENV-26/000008883

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,45±0,44	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	69,1±2,2	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	7,2±2,4	µg/kg	0,0046	0,028	98,56#	23/12/2025 25/12/2025	RES *
Sum of PFOA (branched isomers)	0,092±0,035	µg/kg	0,0046	0,028	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP320-E, 0.1-0.2
Sampled by	Customer - on 17/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008883

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008884

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0012
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP312-D, 0-0.1

Sampling information

Sampled by Customer - on 20/11/2025

follow test report No. RP-ENV-26/000008884

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	2,79±0,50	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	71,0±2,2	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	5,2±1,8	µg/kg	0,036	0,21	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,068±0,027	µg/kg	0,0044	0,026	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP312-D, 0-0.1
Sampled by	Customer - on 20/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008884

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008885

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0013
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP320-B, 0.3-0.4

Sampling information

Sampled by Customer - on 17/11/2025

follow test report No. RP-ENV-26/000008885

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,45±0,26	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	73,1±2,3	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	15,3±5,2	µg/kg	0,034	0,20	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,104±0,038	µg/kg	0,0045	0,027	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP320-B, 0.3-0.4
Sampled by	Customer - on 17/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008885

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008886

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0014
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP312-B, 0.4-0.5

Sampling information

Sampled by Customer - on 20/11/2025

follow test report No. RP-ENV-26/000008886

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,63±0,65	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	74,5±2,3	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	14,7±5,0	µg/kg	0,031	0,19	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,164±0,057	µg/kg	0,0044	0,026	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP312-B, 0.4-0.5
Sampled by	Customer - on 20/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008886

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008887

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0015
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP425-C, 0-0.1

Sampling information

Sampled by Customer - on 14/11/2025

follow test report No. RP-ENV-26/000008887

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,02±0,18	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	69,0±2,2	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,7±1,3	µg/kg	0,0048	0,028	98,56#	23/12/2025 25/12/2025	RES *
Sum of PFOA (branched isomers)	0,042±0,022	µg/kg	0,0048	0,028	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP425-C, 0-0.1
Sampled by	Customer - on 14/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008887

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008888

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0016
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP440-B, 0.2-0.3

Sampling information

Sampled by Customer - on 17/11/2025

follow test report No. RP-ENV-26/000008888

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	6,4±1,1	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	77,1±2,4	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,3±1,1	µg/kg	0,0040	0,024	98,56#	23/12/2025 25/12/2025	RES *
Sum of PFOA (branched isomers)	0,031±0,017	µg/kg	0,0040	0,024	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP440-B, 0.2-0.3
Sampled by	Customer - on 17/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008888

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008889

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0017
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR04-SP408-A, 0.4-0.5

Sampling information

Sampled by Customer - on 19/11/2025

follow test report No. RP-ENV-26/000008889

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	20,9±3,8	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	86,2±2,7	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	2,71±0,92	µg/kg	0,024	0,15	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,089±0,032	µg/kg	0,0034	0,020	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR04-SP408-A, 0.4-0.5
Sampled by	Customer - on 19/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008889

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008890

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-105371-0018
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP318-E, 0.5-0.6

Sampling information

Sampled by Customer - on 18/11/2025

follow test report No. RP-ENV-26/000008890

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	3,37±0,61	g/100 g	0,10	0,10		18/12/2025 22/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	79,9±2,5	g/100 g	0,10	0,10		18/12/2025 19/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	3,3±1,1	µg/kg	0,032	0,19	98,56#	23/12/2025 24/12/2025	RES *
Sum of PFOA (branched isomers)	0,046±0,021	µg/kg	0,0041	0,025	98,56#	23/12/2025 25/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP318-E, 0.5-0.6
Sampled by	Customer - on 18/11/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008890

MDL=LOD: Method Detection Limit, defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. RL=LOQ: Limit of quantification, defined as the concentration of the lowest point of the calibration curve, corrected by the scale factor (weight; dilution) indicated by the applied procedure or rule. "<x" or ">x" represent a value below or above the test measuring range, respectively. Due to the influence of matrix and contaminants present, the sample portion under analysis may have required dilution with a consequent increase in the MDL (detection limit) or RL (limit of quantification) value, in order to comply with the quality criteria of the test methods. The value of < MDL or < RL obtained in this way, although higher than the specification limit, is not indicative of the exceeding of the limit itself. The determination may therefore not be detectable with the required sensitivity. Unless otherwise specified, calculations are performed according to the lower bound (L.B.) criterion. Therefore, if all parameters contributing to the calculation are below their respective RL/MDL, the result will be expressed as "<x", where x is the highest RL/MDL among the analytes involved in the calculation. In case of alteration of the sample, if the customer requests perform the analysis anyway, the laboratory declines any responsibility on those results that can be affected by the deviation. The results expressed in concentration are related to the sampled volume. In the case of sampling performed by a Chelab technician on a water matrix, the UNI EN ISO 5667-1 standard regarding the definition of sampling plans and sampling techniques and the UNI EN ISO 5667-3 standard regarding sample storage, handling and transport are applied. If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. If not otherwise specified, the uncertainty is expanded and has been calculated with a coverage factor k=2 corresponding to a probability interval of about 95% or as a confidence interval calculated with a probability level of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty. Parameters prefixed with "-" are calculated. The values between MDL and RL are estimated with a 99% confidence level. The associated measurement uncertainty is estimated using the same percentage applied for RL. The line marked by a star (*) is not accredited by Accredia, member of MLA, for the operating unit or laboratory that performed it.

R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

Categories: Cat. 0: Tests performed at the laboratory. Cat. I: Tests performed at a temporary laboratory site, set up in a fixed location operating for a limited and predefined period. Cat. II: Tests performed using a mobile laboratory vehicle specifically equipped to carry out certain tests. Cat. III: Tests performed by laboratory personnel at locations outside the laboratory premises.

TEST REPORT RP-ENV-26/000008988

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0001
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP325-E, 0-0.1

Sampling information

Sampled by Customer - on 27/10/2025

follow test report No. RP-ENV-26/000008988

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,64±0,12	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	61,2±1,9	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,2±1,4	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,054±0,023	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP325-E, 0-0.1
Sampled by	Customer - on 27/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008988

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R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor k=2 corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor k =2 corresponding to a probability level of 95%.

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TEST REPORT RP-ENV-26/000008989

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0002
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP325-B, 0.5-0.6

Sampling information

Sampled by Customer - on 27/10/2025

follow test report No. RP-ENV-26/000008989

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	0,171±0,031	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	81,5±2,5	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	14,0±4,7	µg/kg	0,0043	0,026	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,43±0,15	µg/kg	0,0043	0,026	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP325-B, 0.5-0.6
Sampled by	Customer - on 27/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager

Barbara Scantamburlo

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008989

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R% is the recovery, recoveries marked by an hashtag (#) have not been used in the calculations. The recovery relates to the analytical phases performed in the laboratory. If there is a specification (law limits, customer specifications) which has been compared to the analytical results, the values shown in bold indicate a result which is out of the specification. If not differently specified the judgments of compliance /non-compliance eventually reported are referred to analyzed parameters and are based on the comparison of the value with the reference values without considering the confidence interval of measure or the uncertainty of the result. In this case, the risk that accepted items are outside the tolerance limit is up to 50%. The risk of false reject is up to 50% for measured results outside the tolerance (this is called simple acceptance or "shared risk"). The estimate of the measurand is assumed to have a normal probability distribution. If not differently specified, the quantitative microbiological tests (excluded MPN) are performed on liquid and solid environmental matrices on single repetition and two consecutive dilutions; the expanded uncertainty of the result is expressed in accordance to ISO 29201:2012, calculated with a coverage factor $k=2$ corresponding to a probability level of 95%; in case of methods reporting the result as MPN (Most Probable Number), the uncertainty of the result is expressed as the fiducial interval estimated using the statistical tables of the reference method and is calculated with a coverage factor $k=2$ corresponding to a probability level of 95%.

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TEST REPORT RP-ENV-26/000008990

date of issue 28/01/2026

Customer ID 69759

Messrs
WSP UK LIMITED
70 CHANCERY LANE
WC2A1AF LONDON (GB)
GB

Sample information

Acceptance number 25-104544-0003
Delivered by Fedex on 28/11/2025
Place of origin THORNTON PHASE 3 GRID SAMPLING
Matrix Soil
Sample description GR03-SP325-F, 0.1-0.2

Sampling information

Sampled by Customer - on 27/10/2025

follow test report No. RP-ENV-26/000008990

ANALYTICAL RESULTS

	Value/ Uncertainty	Unit of measure	MDL	RL	R%	Start/end date of analysis	Op. units
Granulometric fraction 2cm - 2mm DM 13/09/1999 SO n 185 GU n 248 21/10/1999 Met II.1 - Cat. 0	1,17±0,21	g/100 g	0,10	0,10		09/12/2025 10/12/2025	RES
Dry at 105 °C CNR IRSA 2 Q 64 Vol 2 1984/Notiziario IRSA 2 2008 - Cat. 0	70,3±2,2	g/100 g	0,10	0,10		03/12/2025 04/12/2025	RES *

POLY AND PERFLUORINATED ALKYL COMPOUNDS AND DERIVATIVES

MP 2222 rev 0 2017 - Cat. 0

On dry sample

Perfluoro-n-octanoic acid (PFOA) (335-67-1)	4,3±1,4	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *
Sum of PFOA (branched isomers)	0,042±0,020	µg/kg	0,0042	0,025	98,56#	09/12/2025 10/12/2025	RES *

Operative units

RES : Via Castellana, 118/A 31023 Resana (TV) - Accreditation ACCREDIA 00090

Information provided by the client

Sample description	GR03-SP325-F, 0.1-0.2
Sampled by	Customer - on 27/10/2025
Place of origin	THORNTON PHASE 3 GRID SAMPLING

Chemical Test Manager**Barbara Scantamburlo**

Chimico
Ordine dei chimici e dei fisici - Provincia di Treviso
Iscrizione n. A351

Certified number WSREF-80753129228975 issued by a
certification authority ArubaPEC S.p.A. NG CA 3,
ArubaPEC S.p.A., IT

follow test report No. RP-ENV-26/000008990

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Appendix H

QUESTIONNAIRE RESPONSES



Phase 3 Resident Questionnaire Answers

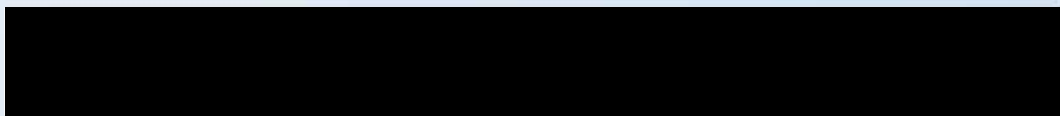
Location ID	Q1 Use of weed suppressants	Q2 Placement of astro turf or faux grass	Q3 Landscaping works undertaken	Q4 Imported or exported topsoil	Q5 Use of soil additives	Q6 Use of chemical fertilisers / pesticides	Q7 How plants are watered	Q8 Details of garden distribution	Council Q Do you grow vegetables for consumption
GR03-SP301	No	Yes	Yes- Perimeter turfed	No	No	No		Grass, patio	Yes
GR03-SP302	No	No	No	No	No	No	No watering	Grass, geotextile at the fence (0.3m)	No
GR03-SP303		No	No	No	No	No		Grass, patio, flowerbeds	Yes
GR03-SP304	No	No	Yes (raised gardens 13 yrs)	None	Yes (added every 6 months)	None	Mains	Raised gardens, flower beds, patio, stones	No
GR03-SP305		No	No					Grass with area of slate shingle with driveway and footpath	No
GR03-SP306		No	No					Patio, decorative stone, grass	No
GR03-SP307	No	No	Yes - whole garden leveled and reseeded in 2024.	Yes	Yes	No	Mains hose/sprinkler	Patio, grass, drains and shed	No
GR03-SP308	No	No	Yes	No	No	No		Resident in a rush. Rear decking, grass lawn, stone patio and hot-tub	No
GR03-SP309		No	No					Grass, flowerbed, green house, tree, play area, shed	No
GR03-SP310		No	No					Grass, patio, flowerbeds	No
GR03-SP311	No	Yes	Yes - rear garden	Yes - rear garden	No	No		Driveway, grass and trees	Yes
GR03-SP312		No	No					Grass and patio	No
GR03-SP313		No	No					Gravel, decking and grass	No
GR03-SP314	No	No	No	Some bags of topsoil added, but not a distinctive layer		No	Mains watering can	Grass, patio, flowerbeds	No
GR03-SP315		No	No		No	No		Grass, driveway	No
GR03-SP316	Plastic	No	No. Observed compost added, beds covered and planters.	Compost/planters only	Compost added to beds			Red pointed planter, muslin, compost	No
GR03-SP317		No	No						Yes
GR03-SP318		Yes	No	Flower beds only	Flower beds only	No	Mains watering can	Grass, green house, flower bed	No
GR03-SP319	No	No	Previously landscaped 10years ago. Removed and levelled 2years ago. Topsoil added and seeded.	Imported topsoil. Removed hardcore		Green Thumb basic treatment package used 2 years ago	Mains water	Patio, grass, trampoline	No
GR03-SP320		No	No					Grass, paving flags, flowerbed	No
GR03-SP321	No	No	No (only topsoil added to flower beds)	Yes (topsoil added 2-3 yrs ago)	See Q4	None	No watering	Flower beds, topsoil around boundaries	No
GR03-SP322	No	No	No	No	No	No	No watering	Front garden, driveway, grassed area	No
GR03-SP323		No	No					grass with trees and footpath	No
GR03-SP324	Yes	No	No			Weed and Feed		Grass, footpath, flower beds and raised paved area	No
GR03-SP325	No	No	No	No	No	No	Mains hose/sprinkler	Patio, shrubs and grass	No
GR03-SP326		No	No						No
GR03-SP327	Herbicide	No	Yes (rear raised garden approximately 0.3m. Existing paving likely present at the original ground level)	None	No		No	Raised gravel, paving, hard-to-dig areas	No
GR03-SP328		No	No						No
GR03-SP329	No	Yes - astroturf in the back garden and centre of front garden.	Yes (flower beds, raised beds, pond)	None		No		Astro turf in back/front, flower beds, raised beds, pond	No
GR03-SP330		No	Yes					Grass with footpath and road adjacent	No
GR03-SP331		No	No	Yes - used to level back of rear garden and in flower borders.				Grass, path, flower bed	No
GR03-SP332	Yes	No	No		No	No	Mains	Weed suppressant under gravel, shed, patio, flower bed	No
GR03-SP333		No	No						Yes

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Council Q
Location ID	Use of weed suppressants	Placement of astro turf or faux grass	Landscaping works undertaken	Imported or exported topsoil	Use of soil additives	Use of chemical fertilisers / pesticides	How plants are watered	Details of garden distribution	Do you grow vegetables for consumption
GR03-SP334	Herbicide	No	Occupied property for 15 yrs. Landscaping works to remove flag stones and replace with turf.	New turf and topsoil added to level back and side garden about 10 yrs ago.	Topsoil added to level garden.	Yes - Greenthumb treatment 3 times a year - pellets of fertiliser/weed killer.		New turf, topsoil, no diagram	No
GR03-SP335	No	No	No (only work to flower beds)	No	No	No		Flower beds, lawn, driveway, concrete path	No
GR04-SP401	No	No	No	No	No	No	No watering	Patio, shed, grass	No
GR04-SP403		No	No	No	No				No
GR04-SP406		No	Yes	Yes - 6 inches placed on original ground level. 35 yrs ago.		No	Mains hose/sprinkler	Raised grass, patio, flowerbeds	No
GR04-SP408		Rear only	No	No				Sampled from front garden only. Grass, tree	No
GR04-SP409	No	No	Not during current occupancy - lawn was already raised	No	No	No	No watering	Gravel, patio, raised grass with shrubs	No
GR04-SP410		No	No					Patio, grass, beds and shed	No
GR04-SP411	No	Temporary mats	No	No	No	No			No
GR04-SP412		No	No					Patio, grass, hedges, water	No
GR04-SP413	No	No	No - no changes since January 2012.	Compost/manure in boarders only.	Compost/manure in boarders.	Fungus/blackspot spray on roses and weeds on patio.	Mains and water butt	Patio, grass, shrubs and footpath	No
GR04-SP415	Geotextile	No	No	No					No
GR04-SP416		No	No					Patios, footpaths, grass, boarder with trees	No
GR04-SP417		No	No						No
GR04-SP419	No	No	Yes	No	No	No		Grass, flowerbed, pond	No
GR04-SP420		No	No					Grass, path	Yes
GR04-SP421		No	No						No
GR04-SP422		No	No					Grass, flower bed, patio, gravel area	No
GR04-SP423	No	No	No	No	No	No	No watering	Driveway	No
GR04-SP425	No	No	No					Grass, concrete path, decking	No
GR04-SP426	No	No	No - not for 26 yrs.	No. Occasional scattering of grow bags more than 10 years ago.	No	No	No watering		Yes
GR04-SP427	Yes	No	Yes	Yes, topsoil/turf	Yes	Minimal	Mains watering can	Area of new grass, gravel, concrete	Yes
GR04-SP429		No	No	No				Grass, beds	No
GR04-SP430	No	No	No	No	No	No		Grass, patio, raised patio	No
GR04-SP434		No	Yes - portions of the garden <5 years ago to increase lawn size. Encountered concrete beneath grass.	Yes - to increase lawn area in the northwest corner of the front garden.	No	No	Mains watering can	Grass, patio	No
GR04-SP435	No	No	No	No	No	No	Mains watering can	Grass, footpath and treeline	Yes
GR04-SP436		No	No	No	No	No	Mains watering can		No
GR04-SP437		No	Yes, 18 years ago.	Yes	Yes			Grass, greenhouse and shed with drain cover	Yes
GR04-SP438	No	No	No	No	No	Yes- Garden centre 'weed and feed' twice a year	Mains watering can	Grass, patio	No
GR04-SP439	No	No	Yes, rear garden only.	Only in flower beds		No	Mains watering can	Grass, flower bed, driveway	No
GR04-SP440	No	No	No	No	No	No		Grass with tree, patio, flowerbed	No
GR04-SP441	No	No	No	No	No	No	Mains hose/sprinkler	Patio, grass with tree.	No
GR04-SP442		No	No					Grass, path, driveway	No

Phase 3 Poultry Owners Questionnaire Answers

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19																			
	Location ID	No. of Birds	Breed of hens	Age Range	Years keeping poultry	Location of birds	Bedding material	Feed	How is feed provided	Source of drinking water	Access to other water sources	Access to natural untreated soil	Weekly egg production	Weekly home-grown egg consumption	Weekly shop-bought egg	Give eggs to others	Willing to provide	Want to receive/d	Questions/concerns about testing procedure	Additional info																		
	POUL-SP504	13	1 Dorking, 3 Legbars, 1 Brahma, 1 Silky cross, 6 rescue hens	18 months – 6 years	>100yrs	Free-range in garden	Straw + shavings	Layers pellets + mixed corn	Chicken feeders	Water bowls + feeders	Sometimes	Yes	40–45	<table><tr><td>Person</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>Home</td><td>10</td><td>4</td><td></td><td></td><td></td></tr><tr><td>Shop</td><td>0</td><td>0</td><td></td><td></td><td></td></tr></table>	Person	A	B	C	D	E	Home	10	4				Shop	0	0				Yes	Yes	Yes	Not specified	Not specified	
Person	A	B	C	D	E																																	
Home	10	4																																				
Shop	0	0																																				
	POUL-SP510	20	Ducks - Shetland, Mallard, Aylesby, Call	5	14 years. Previously had chickens.	Free-range in garden, Confined to a coop/run	Straw & smart horse shavings	Allen & Page small holder geese + duck - layers pellets. Plants, insects, fruit from free range	In metal bowls, free range	Fresh from tap, puddle water, pond water, rainwater	Yes	Yes	120-140 Spring to Autumn. Only 1 egg available due to season of sampling.	<table><tr><td>Person</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>Home</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Shop</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td></tr></table> no longer eating than used to eat daily in home with them	Person	A	B	C	D	E	Home	1	1	1	1	1	Shop	4	4	4	4	4	Stopped eating them a year ago.	Yes (used to eat daily, bake, give to friends)	Yes	Yes	Only 1 egg available due to laying season	Growing own crops for 20 years; used to eat eggs daily, bake, give to friends
Person	A	B	C	D	E																																	
Home	1	1	1	1	1																																	
Shop	4	4	4	4	4																																	
	POUL-SP511	Questionnaire not completed.																																				
	POUL-SP512	2	Silkies (Bantams)	4 years	4 years	Free-range in garden, Confined to a coop/run	Wood shavings	Layers pellets, bird seed, fruit	Feeders (constantly available), occasional scattered	Tap water	No	Yes	7 (total)	<table><tr><td>Person</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>Home</td><td>4</td><td>3</td><td>0</td><td></td><td></td></tr><tr><td>Shop</td><td>0</td><td>0</td><td>0</td><td></td><td></td></tr></table>	Person	A	B	C	D	E	Home	4	3	0			Shop	0	0	0			No	Yes	Yes	Not specified	Not specified	
Person	A	B	C	D	E																																	
Home	4	3	0																																			
Shop	0	0	0																																			
	POUL-SP513	4 Chickens & 4 Indian Runner Ducks	Road Island Red, Barred Plymouth Rock, Hyline White Leghorn, Creame legbar	Ducks: ~7 months; Chickens: 5, 3, 3, 1.5 years.	Not specified	Free-range in garden	Hay	Pellets, veg, worms; ducks filter soil when wet	In a feeder	Tubs of water, fresh daily	Only when raining	Yes	Chickens: 15–21, Ducks: 28	<table><tr><td>Person</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>Home</td><td>4</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Shop</td><td>0</td><td>0</td><td>0</td><td>6</td><td>0</td></tr></table>	Person	A	B	C	D	E	Home	4	2	2	2	2	Shop	0	0	0	6	0	Yes	Yes	Yes	"Quite scary that tests are being done all those years after. Should we stop eating eggs?"	"No drains atm"	
Person	A	B	C	D	E																																	
Home	4	2	2	2	2																																	
Shop	0	0	0	6	0																																	

Appendix I



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APPENDIX I - GLOSSARY OF TERMS – PROPERTY SUMMARIES

M bgl	Meters below ground level – a unit of measured used to communicate depths of geological features.
EFSA 4 PFAS (PFOA, PFOS, PFNA and PFHxS)	Four PFAS selected by the European Food Safety Authority (EFSA) for the assessment of risk to human health from PFAS.
PFAS Broad Suite	There are many compounds within the PFAS group. The Broad Suite is a laboratory analytical package that comprises 50 individual PFAS compounds most frequently used by industry and found in the environment.
PFOA linear and branched isomers	The PFOA compound contains individual elements such as carbon, fluorine and oxygen which can be positioned in two dominants forms. The same number of elements are present in both forms of the compound. The different forms are called isomers. The linear isomer - elements are positioned side-by-side as a chain. The branched isomer - elements are positioned in small individual groups forming ‘branches’ along a carbon backbone.
Cross contamination	A process whereby a potentially contaminating substance is inadvertently moved from one location to another and impacting a sample that otherwise would not be considered contaminated.
Rinsate (equipment blank)	A quality assurance / quality control (QA/QC) process involving laboratory analysis of laboratory supplied PFAS free water. The PFAS free rinse water was poured over the sampling equipment after cleaning and collected for analysis to check the sufficiency of the equipment cleaning process between samples and individual sample pits.
Duplicate	A quality assurance / quality control (QA/QC) process involving obtaining a second soil sample obtained from the same soil at the same time using the same sampling equipment. The second and original sample are both analysed in a laboratory and the results compared for differences. Duplicate samples were collected from the same pit and from an additional duplicate pit dug immediately adjacent to the original pit. The original pit has been identified as “S1” and the duplicate pit as “S2” in this investigation.
Sampling precision	Assesses the similarities between samples in terms of the physical characteristics and profile.
Analytical precision	Assesses the repeatability of laboratory processes and capabilities of analytical machinery.
Relative percentage difference (RPD)	A measure of statistical difference between two samples. The results of the original sample and duplicate sample are compared by expressing how far apart they are relative to their average. The ratio is expressed as a percentage.
Limit of detection (LOD)	The lowest amount of a substance that a laboratory analytical method can reliably distinguish from a blank result (no substance at all present). The limit of detection is dependent on the technological advancement and scientific capability of the laboratory.

µg/kg / µg/l	Units of measurement: 1 µg/kg means one microgram of a substance in one kilogram of soil. 1 µg/l means one microgram of a substance dissolved in one litre of water.
Soil Organic Matter (SOM)	Soil Organic Matter is a measure of the naturally forming organic component of soil which includes humus, decomposing vegetation and living organisms. Certain organic chemicals strongly bind to SOM resulting in a positive correlation between SOM concentration and chemical concentration.
pH	pH is a measure of the acidity or basicity of the soil. pH controls how a substance behaves in the environment and what chemical reactions may occur.
Phase 2	Investigation phase undertaken in February to March 2025
Phase 3	Investigation phase undertaken in October to November 2025
Logs	In ground engineering, geology and observed ground characteristics are recorded and communicated graphically using 'logs'. For this project the logs include a description of the geology against specific depth intervals, list samples obtained, groundwater occurrences, the method of investigation and key findings.
Made Ground	Soil and or ground which has been placed, reworked, or significantly modified by human activity. Made ground typically contains inclusions of man-made materials such as brick, concrete, plastic or glass alongside natural forming materials such as plant humus, clay, sand, and gravel of sandstone, flint or mudstone.
Anthropogenic materials	These comprise materials only produced by man such as brick, concrete and plastic, and would not be considered naturally occurring.
Potentially reworked natural	Soil and or ground that exhibits naturally occurring characteristics or evidence of natural geological processes. The position or location of the soil indicates that the material may have been disturbed such as a rear garden. Natural material may have been excavated and stockpiled during construction of a residential development and returned to the garden when completed.
Ground penetrating radar (GPR)	A device that uses high-frequency electromagnetic pulses to create images of the subsurface. It utilises geophysical principals to detect buried objects and layers of geology by measuring how radar waves reflect off boundaries between different materials. The technology was using during this investigation to detect below ground utility services.
British Standard	British Standards are formally developed, consensus-based documents published by the British Standards Institution (BSI). It is a requirement in engineering to conform to British Standards, when applicable, to ensure work is completed to the required quality, safety and reliability standard.

Appendix J

TABLES



Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

	Customer Sample ID GR03-SP301-F-S1						GR03-SP301-F-S2		GR03-SP301-F-S2		GR03-SP301-G		GR03-SP301-G		GR03-SP302-A		GR03-SP302-B		GR03-SP302-C		GR03-SP302-D		GR03-SP302-E-S1	
	Depth	0.50-0.60		0.10-0.20	0.10-0.20	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20			
Thornton Phase 3	Sampled Date	19/11/2025		19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025			
	SDG	251121-24		251121-24	251121-24	251121-24	251121-24	251121-24	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14			
	Lab Sample Number	32490039		32490000	32490004	32490072	32490041	32490043	32475431	32475433	32475435	32475437	32475439	32475441	32475443	32475445	32475482	32475447	32475449	32475454	32475456			
Test	Method	Units	LOD																					
Sample Description																								
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown		Black	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown		
Description	PM024	No units		Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay		Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silt Loam	Silty Clay Loam	Silt Loam	Silty Clay Loam		
Inclusion 1)	PM024	No units		oncrete/Aggregate	Stones	Vegetation	Stones	Stones	Stones	Concrete/Aggregate	Vegetation			Vegetation	Stones	Stones	Stones	Vegetation	Vegetation	Brick	Vegetation	Vegetation		
Inclusion 2)	PM024	No units		Stones	Vegetation	Stones	Vegetation	Vegetation	Brick	Vegetation	Stones	None		Stones	Vegetation	None	Vegetation	Vegetation	None	Stones	None	None		
Moisture Content Ratio (% of as received sample)	PM024	%		10	22	19	21	17	16	25	20	17		23	20	19	27	24	26	22	21	21	25	
Carbon																								
Soil Organic Matter (SOM)	TM132	%	<0.35	1.42	2.65	2.34	2.65	2.29	1.58	3.57	1.88	1.38		6.52	3.52	1.81	4.79	1.42	1.38	5.52	0.386	<0.35	4.31	
Inorganics																								
pH	TM133	pH Units	<1	8.61	8.21	8.41	8.24	8.67	8.47	8.26	8.26	7.91		8.27	8.53	8.33	8.18	7.98	8.4	8.28	8.12	8.08	7.3	
Miscellaneous Organics																								
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	0.749	<0.5	0.642	<0.5	<0.5	<0.5	<0.5	<0.5		0.976	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.808	
PfMOBAr (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5								

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Phase 3 Soils Data for Residential Properties

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Phase 3 Soils Data for Residential Properties

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		Customer Sample ID	GR03-SP303-D	GR03-SP303-E	GR03-SP303-F	GR03-SP303-G	GR03-SP303-H	GR03-SP303-I	GR03-SP303-J	GR03-SP303-K	GR03-SP303-L	GR03-SP303-M	GR03-SP303-N	GR03-SP303-O	GR03-SP303-P	GR03-SP303-Q	GR03-SP303-R	GR03-SP303-S	GR03-SP303-T	GR03-SP303-U	GR03-SP303-V	GR03-SP303-W	GR03-SP303-X	GR03-SP303-Y	GR03-SP303-Z
		Depth	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.30-0.40	0.50-0.60	0.30-0.40	0.30-0.40	0.00-0.10	0.20-0.30	0.30-0.40				
		Sampled Date	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	10/11/2025	
		SDG	251112-63	251112-63	251112-63	251112-63	251112-63	251112-63	251112-63	251112-63	251112-63	251112-63	251112-63	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	
		Lab Sample Number	32444437	32444440	32444447	32444452	32444455	32444457	32444460	32444462	32444464	32444467	32356248	32356308	32356331	32356353	32356371	32356373	32356375	32356377					
Test	Method	Units	LOD																						
Sample Description																									
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown				
Description	PM024	No units		Sandy Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Loamy Sand	Clay Loam	Silt Loam	Silt Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Loamy Sand	Loamy Sand	Sandy Loam	Sandy Loam	Sandy Loam				
Inclusion 1)	PM024	No units		Vegetation	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones	Stones	Stones	Vegetation	Brick	Glass & Stones	Crushed Brick	Brick	Stones	Stones	Crushed Brick	Brick				
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Stones	Stones	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Stones				
Moisture Content Ratio (% of as received sample)	PM024	%		18	25	13	13	28	19	18	29	23	15	13	11	14	11	11	12	15	14			11	
Carbon																									
Soil Organic Matter (SOM)	TM132	%	<0.35	1.18	6.07	1.26	1.46	4.52	2.57	1.12	4.43	2.78	1.14	3.29	3.45	2.6	1.71	2.22	2.05	6.93	4.02			3.33	
Inorganics																									
pH	TM133	pH Units	<1	7.76	8.2	8.51	7.93	7.24	7.69	7.65	6.34	6.66	6.87	8.31	8.58	8.47	8.8	8.68	8.69	8.34	8.8			10	
Miscellaneous Organics																									
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.751	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	0.807	<0.5	<0.5	0.826	<0.5	<0.5	<0.5	<0.5	0.823	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.18	<0.5	<0.5	<0.5		
PfMOBA (863090-89-5)	TM																								

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Phase 3 Soils Data for Residential Properties

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		Copper Sample ID	GR03-SP307-A-S2	GR03-SP307-B	GR03-SP307-C	GR03-SP307-D	GR03-SP307-E	GR03-SP307-F	GR03-SP307-G	GR03-SP307-H	GR03-SP307-I	GR03-SP307-J	GR03-SP307-K	GR03-SP307-L	GR03-SP307-M	GR03-SP307-N	GR03-SP307-O	GR03-SP307-P	GR03-SP307-Q	GR03-SP307-R
Thornton Phase 3	Depth	0.30-0.40	0.30-0.40	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	
	Sampled Date	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	
	SDG	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	
	Lab Sample Number	32389678	32389680	32389685	32389687	32389582	32389584	32389586	32389588	32389590	32389592	32389594	32389596	32389598	32389601	32389605	32389607	32389609	32389611	
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown
Description	PM024	No units	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Silt Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay	Sandy Clay Loam	Sandy Silt Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Silt Loam
Inclusion 1)	PM024	No units	Stones	Stones	Vegetation	Stones	None	Stones	Stones	Stones	Stones	Stones	Stones	Glass & Stones	Vegetation	Stones	Stones	Fibres oncrete/Aggregate	Stones	Stones
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Stones	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Plastic /concrete/Aggregate	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Stones	Stones	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%	14	16	20	13	15	22	19	20	23	18	21	23	20	20	21	21	17	23
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	1.07	1.12	2.97	1.1	1.78	6.05	2.28	2.53	6.28	1.79	1.97	3.71	2.47	2.71	4.62	2.86	8.96
Inorganics																				
pH	TM133	pH Units	<1	8.42	8.48	7.84	8.25	7.6	6.39	8.61	8.47	6.59	8.2	8.45	6.3	7.73	7.61	7.62	7.93	7.96
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPFA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<													

Thornton Phase 3	Customer Sample ID			GR03-SP307-G	GR03-SP307-G	GR03-SP308-A	GR03-SP308-A	GR03-SP308-B	GR03-SP308-B	GR03-SP308-B	GR03-SP308-C	GR03-SP308-C	GR03-SP308-C	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S1	GR03-SP308-D-S2	GR03-SP308-D-S2	GR03-SP308-E	GR03-SP308-E	
	Depth	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.40-0.50	0.40-0.50	0.40-0.50	0.40-0.50	0.10-0.20	0.30-0.40	
	Sampled Date	31/10/2025	31/10/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	
	SDG	251103-17	251103-17	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	
	Lab Sample Number	32389615	32389617	32430537	32430567	32430593	32430639	32430641	32430643	32430648	32430542	32430547	32430549	32430552	32430554	32430556	32430558	32430561	32430563	32430565		
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Grey
Description	PM024	No units	Sandy Clay Loam	Silty Clay	Silt Loam	Sandy Clay Loam	Silt Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silt Loam	Clay Loam	Sandy Silt Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay	
Inclusion 1)	PM024	No units	Stones	Stones	Glass & Stones	Stones	oncrete/Aggregate	le/Insulation Board	Tile/Insulation Board	Brick	Brick	le/Insulation Board	Stones	Vegetation	Stones	Stones	Stones	Brick	Brick	Stones	Vegetation	
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	le/Insulation Board	Stones	Stones	Stones	Stones	Stones	Stones	Vegetation	None	Vegetation	None	Brick	Stones	Stones	Vegetation	Stones	
Moisture Content Ratio (% of as received sample)	PM024	%	15	16	23	11	11	26	20	12	19	17	14	30	20	13	12	13	13	28	22	
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	2.26	1.6	6.91	1.68	1.67	7.12	4.14	2.83	7.5	4.41	2.79	9.12	4.95	2.5	2.83	1.59	2.88	9.57	4.59
Inorganics																						
pH	TM133	pH Units	<1	8.43	8.42	7.14	8.52	8.34	7.32	8.2	8.4	6.71	7.62	8.41	7.41	8.36	8.39	8.55	8.28	8.32	7.34	8.18
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	0.694	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.811	<0.5	0.965	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	1.07	<0.5	<0.5	0.683	<0.5	<0.5	1.33	<0.5	<0.5	1.47	<0.5	4.53	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.04	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	1.4	1.53	1.94	4.24	5.68	2.66	5.05	5.82	1.38	4.06	5.27	4.78	6.52	40.5	25.4	79.6	15.2	3.48	4.82
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP308-E	GR03-SP308-F	GR03-SP308-F	GR03-SP308-F	GR03-SP308-G	GR03-SP308-G	GR03-SP308-G	GR03-SP309-A	GR03-SP309-A	GR03-SP309-A	GR03-SP309-B-S1	GR03-SP309-B-S1	GR03-SP309-B-S1	GR03-SP309-B-S1	GR03-SP309-B-S2	GR03-SP309-B-S2
		Depth	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.30-0.40	0.50-0.60	0.30-0.40	0.30-0.40
Thornton Phase 3		Sampled Date	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025
		SDG	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251110-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25
		Lab Sample Number	32430569	32430572	32430574	32430576	32430578	32430583	32430586	32498164	32498173	32498166	32498158	32498011	32498031	32498162	32498005	32498027
Test	Method	Units	LOD															
Sample Description																		
Colour	PM024	No units	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown
Description	PM024	No units	Silty Clay	Sandy Loam	Sandy Silt Loam	Sandy Clay Loam	Sandy Silt Loam	Sandy Silt Loam	Sandy Clay	Loamy Sand	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam
Inclusion 1)	PM024	No units	Stones	Stones	Stones	Crushed Brick	Stones	Brick	Stones	Vegetation	Stones	Brick	Concrete/Aggregate	Brick	Brick	Concrete/Aggregate	Brick	Brick
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Stones	Stones	Stones	Concrete/Aggregate	Stones	Concrete/Aggregate	Concrete/Aggregate
Moisture Content Ratio (% of as received sample)	PM024	%	16	26	18	13	23	20	11	12	14	12	16	17	16	15	13	15
Carbon																		
Soil Organic Matter (SOM)	TM132	%	<0.35	1.46	9.69	3.64	1.79	4.62	2.6	2.98	6.03	4.1	1.22	3.97	4.29	4.07	2.17	2.29
Inorganics																		
pH	TM133	pH Units	<1	8.36	7.67	8.39	8.32	7.97	8.3	8.43	8.3	8.56	8.76	8.37	8.53	8.5	8.48	8.7
Miscellaneous Organics																		
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.739	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.752	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440																	

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Customer Sample ID				GR03-SP309-C	GR03-SP309-C	GR03-SP309-C	GR03-SP309-D	GR03-SP309-D	GR03-SP309-D	GR03-SP309-E	GR03-SP309-E	GR03-SP309-F	GR03-SP309-F	GR03-SP309-G	GR03-SP309-G	GR03-SP309-A	GR03-SP310-A		
Thornton Phase 3	Depth	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20		
	Sampled Date	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025	11/11/2025		
	SDG	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251122-25	251114-62		
	Lab Sample Number	32498147	32498151	32498155	32498138	32498141	32498144	32498129	32498131	32498135	32498171	32498118	32498121	32498110	32498113	32498115	32455911		
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown		
Description	PM024	No units		Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Loamy Sand	Loamy Sand	Sandy Clay Loam	Sandy Clay Loam	Loamy Sand	Loamy Sand	Sandy Loam	Sandy Clay Loam	Loamy Sand		
Inclusion 1)	PM024	No units		Brick	Glass & Stones	Brick	Stones	Stones	Crushed Brick	Stones	Brick	Brick	Stones	Stones	Crushed Brick	Glass & Stones	Stones		
Inclusion 2)	PM024	No units		Stones	Vegetation	Stones	Vegetation	Plastic	Stones	Vegetation	Stones	Stones	Vegetation	Vegetation	Stones	Vegetation	Stones		
Moisture Content Ratio (% of as received sample)	PM024	%		16	14	14	16	14	11	13	14	11	15	15	15	16	11		
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	5.22	2.97	2.31	4.91	4.81	19.7	5	3.28	1.76	5.5	3.57	3.38	4.97	2.03		
Inorganics																			
pH	TM133	pH Units	<1	8.28	8.62	8.46	8.15	8.49	8.76	8.54	8.35	8.78	8.51	8.49	8.49	8.42	8.61		
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	TM440	ug/kg	<0.5	0.648	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	TM440	ug/kg	<0.5	1.39	1.17	1.58	1.05	1.27	1.69	1.01	1.04	0.608	1.47	1.55	3.2	1.3	1.83		
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	0.848	<0.6	0.866	0.8	<0.6	0.724	1.92	<0.6	1.07	1.33	<0.6	0.776	<0.6		
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
ElFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4		
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
11Cl-PF3OUds (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
ElFOSE (1691-99-2)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
N-ElFOSA (4151-50-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFODA (16517-11-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Total PFOS	TM440	ug/kg		<0.6	0.848	<0.6	0.866	0.8	<0.6	0.724	1.92	<0.6	1.07	1.33	<0.6	0.776	<0.6		
Total Identified PFAS	TM440	ug/kg	<51.0	<51	<51	<51	<51	<51	<51	<51	<51	<51	<51	<51	<51	<51	<51		

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Thornton Phase 3	Customer Sample ID			GR03-SP310-A	GR03-SP310-B	GR03-SP310-B-S1	GR03-SP310-B-S1	GR03-SP310-B-S1	GR03-SP310-B-S2	GR03-SP310-B-S2	GR03-SP310-C	GR03-SP310-C	GR03-SP310-C	GR03-SP310-D	GR03-SP310-E	GR03-SP310-E	GR03-SP310-E		
	Depth	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.40-0.50	0.40-0.50	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.30-0.40		
	Sampled Date	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025	11/11/2025		
	SDG	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62	251114-62		
	Lab Sample Number	32455913	32455909	32455899	32455901	32455894	32455896	32455883	32455885	32455879	32455873	32455881	32455864	32455866	32455869	32455851	32455858		
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	
Description	PM024	No units		Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay	Clay	Silty Clay Loam	Silty Clay	Silty Clay Loam	Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Concrete/Aggregate	Stones	Stones	Stones	Stones	Stones	Stones	Vegetation	Stones	Stones	Brick	Vegetation	
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	Vegetation	Brick	Stones	None	
Moisture Content Ratio (% of as received sample)	PM024	%		13	16	24	24	14	18	15	17	25	18	15	26	13	15	26	
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	1.44	0.981	3.34	2.72	1.19	0.869	0.784	0.871	4.07	1.11	0.64	3.69	3.14	1.52	3.79	
Inorganics																			
pH	TM133	pH Units	<1	8.61	8.45	7.96	8.19	8.47	8.49	8.1	8.09	7.99	8.48	8.28	7.83	8.44	8.52	7.48	
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.68	38.2	5.54	9.04	18.5	14.5	37	37.5	3.52	18.8	30.6	6.18	7.76	18	8.48	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
EtFOSE (1691-99-2)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
N-EtFOSA (4151-50-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFODA (16517-11-6)	TM4																		

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Thornton Phase 3	Customer Sample ID			GR03-SP313-D	GR03-SP313-D	GR03-SP313-E	GR03-SP313-E	GR03-SP313-E	GR03-SP313-E	GR03-SP314-A	GR03-SP314-A	GR03-SP314-B-S1	GR03-SP314-B-S1	GR03-SP314-B-S1	GR03-SP314-B-S1	GR03-SP314-B-S2	GR03-SP314-B-S2	GR03-SP314-C	GR03-SP314-C	GR03-SP314-C	GR03-SP314-D	GR03-SP314-D
	Depth	0.20-0.30	0.50-0.60	0.10-0.20	0.30-0.40	0.50-0.60	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.40-0.50	0.40-0.50	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40		
	Sampled Date	30/10/2025	30/10/2025	30/10/2025	30/10/2025	30/10/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025	12/11/2025		
	SDG	251101-67	251101-67	251101-67	251101-67	251101-67	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40	251115-40		
	Lab Sample Number	32386466	32386469	32386471	32386478	32386481	32460903	32460929	32460957	32460983	32461008	32461010	32461012	32461014	32461016	32460908	32460910	32460912	32460915	32460921		
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units		Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown		
Description	PM024	No units		Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Clay	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam		
Inclusion 1)	PM024	No units		Vegetation	None	Stones	Stones	Vegetation	Vegetation	Stones	Vegetation	Stones	Stones	Vegetation	Stones	Vegetation	Stones	Stones	Stones	Stones		
Inclusion 2)	PM024	No units		None	None	Vegetation	Vegetation	None	Stones	Vegetation	Stones	Vegetation	Vegetation	Stones	None	Stones	Vegetation	Vegetation	Vegetation	Vegetation		
Moisture Content Ratio (% of as received sample)	PM024	%		21	19	30	22	14	26	21	19	26	18	19	18	18	17	29	17	18	36	
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	3.19	1.28	5.64	3.81	1.76	7.55	2.07	2	6.29	1.25	3.31	1.29	0.833	1.11	6.5	1.67	0.664	8.62	
Inorganics																						
pH	TM133	pH Units	<1	7.93	7.81	7.55	7.94	7.71	7.52	8.2	8.19	8.09	8.07	8.62	8.51	8.49	8.46	7.36	8.37	8.49	7.21	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	TM440	ug/kg	<0.5	7.23	4.57	6.63	20.2	19.9	3.67	1.89	2.08	2.41	1.18	1.61	0.938	2.12	2.13	5.18	2.61	3.31	5.68	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6						

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		Customer Sample ID	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S1	GR03-SP318-B-S2	GR03-SP318-B-S2	GR03-SP318-B-S2	GR03-SP318-C	GR03-SP318-C	GR03-SP318-D	GR03-SP318-D	GR03-SP318-E	GR03-SP318-E	GR03-SP318-F	GR03-SP318-F		
Thornton Phase 3		Depth	0.00-0.10	0.20-0.30	0.20-0.30	0.40-0.50	0.20-0.30	0.20-0.30	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10
		Sampled Date	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
		SDG	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
		Lab Sample Number	32497929	32497902	32497910	32497931	32497904	32497914	32497933	32497935	32497938	32497940	32497946	32497948	32497950	32497953	32498063	32497955
Test	Method	Units	LOD															
Sample Description																		
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown
Description	PM024	No units		Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silt Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silt Loam	Silty Clay
Inclusion 1)	PM024	No units		Vegetation	Vegetation	Stones	Stones	Vegetation	Stones	Stones	Stones	Fibres	Stones	Stones	Stones	Concrete/Aggregate	Concrete/Aggregate	Stones
Inclusion 2)	PM024	No units		None	None	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		30	19	19	19	21	19	26	21	18	31	28	21	22	24	20
Carbon																		
Soil Organic Matter (SOM)	TM132	%	<0.35	5.14	1.55	1.54	1.36	1.48	1.4	3.43	1.47	1.36	4.81	4.03	1.74	3.24	3.31	1.97
Inorganics																		
pH	TM133	pH Units	<1	6.74	8.03	8.41	8.47	8.17	8.36	7.87	8.12	8.24	7.52	7.84	8.4	8.28	7.78	8.21
Miscellaneous Organics																		
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PfMOPIrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PfMObA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEEsA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.73	2.88	2.27	3.35	1.82	2.1	2.27	2.97	4.32	3.9	4.48	3.45	2.94	2.95	3.15
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
ElFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUds (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
ElFOSE (1691-99-2)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
N-ElFOSA (4151-50-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&			

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

	Customer Sample ID	GR03-SP319-C-S2	GR03-SP319-D	GR03-SP319-E	GR03-SP319-F	GR03-SP319-G	GR03-SP319-H	GR03-SP319-I	GR03-SP319-J	GR03-SP319-K	GR03-SP319-L	GR03-SP319-M	GR03-SP319-N	GR03-SP319-O	GR03-SP320-A-S1	GR03-SP320-A-S1	GR03-SP320-A-S1
Thornton Phase 3	Depth	0.20-0.30	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60
	Sampled Date	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	17/11/2025	17/11/2025	17/11/2025
	SDG	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251115-42	251119-15	251119-15	251119-15
	Lab Sample Number	32461031	32461053	32461055	32461057	32461059	32461064	32461066	32461172	32461068	32461073	32461078	32461080	32461088	32475592	32475597	32475576
Test	Method	Units	LOD														
Sample Description																	
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown
Description	PM024	No units		Sandy Loam	Sandy Clay Loam	Sandy Clay	Sandy Clay	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay	Sandy Clay	Silty Clay Loam
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Vegetation	Stones	Stones	Stones	Stones	Stones	None	Stones	Stones	Tile/Insulation Board	Vegetation
Inclusion 2)	PM024	No units		Brick	Vegetation	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	Vegetation	Vegetation	Stones	None
Moisture Content Ratio (% of as received sample)	PM024	%		15	18	21	22	25	16	23	18	17	16	20	20	16	21
Carbon																	
Soil Organic Matter (SOM)	TM132	%	<0.35	3.21	3.07	1.88	3.09	11.4	3.93	4.1	7.29	3.65	0.905	6.33	4.74	2.17	3.71
Inorganics																	
pH	TM133	pH Units	<1	8.31	8.29	8.31	7.28	7.94	8.23	8.14	8.34	8.5	8.29	8.23	8.35	7.98	6.9
Miscellaneous Organics																	
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.662	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	0.666	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	2.57	2.73	5.11	81.1	3.52	3.73	9.08	1.36	1.32	12.5	2.32	7.72	9.14	7.85
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.706	<0.5	0.822	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.821	<0.5	0.713	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	0.851	<0.6	<0.6	<0.6	0.853	0.773	0.807	<0.6	<0.6	<0.6	0.819	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
EtFOSE (1691-99-2)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
N-EtFOSA (4151-50-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFODA (16517-11-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PFOS	TM440	ug/kg	<0.6	0.851	<0.6	<0.6	<0.6	0.853	0.773	0.807	<0.6	<0.6	<0.6	0.819	<0.6	<0.6	<0.6
Total Identified PFAS	TM440	ug/kg	<51.0	<51	<51	<51	81.8	<51	<51	<51	<51	<51	<51	<51	<51	<51	<51

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP320-A-S1	GR03-SP320-A-S2	GR03-SP320-A-S2	GR03-SP320-B	GR03-SP320-B	GR03-SP320-B	GR03-SP320-B	GR03-SP320-C	GR03-SP320-C	GR03-SP320-D	GR03-SP320-D	GR03-SP320-E	GR03-SP320-E	GR03-SP320-F	GR03-SP320-F	
Test	Sample Description	Depth	0.50-0.60	0.50-0.60	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10
		Sampled Date	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
		SDG	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
		Lab Sample Number	32475584	32475578	32475586	32475599	32475684	32475601	32475603	32475605	32475607	32475609	32475611	32475613	32475686	32475615	32475620	32475622
Method	Units	LOD																
Colour	PM024	No units	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown
Description	PM024	No units	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Sandy Silt Loam	Silty Clay Loam	Silty Clay Loam	Silt Loam	
Inclusion 1)	PM024	No units	Stones	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Stones	Stones	Stones	Vegetation	Stones	Concrete/Aggregate	Vegetation	Vegetation	Vegetation	
Inclusion 2)	PM024	No units	Vegetation	None	None	Vegetation	None	None	Vegetation	Vegetation	Vegetation	None	Concrete/Aggregate	Stones	None	Vegetation	None	
Moisture Content Ratio (% of as received sample)	PM024	%	25	21	22	27	24	33	18	26	18	20	23	24	30	30	29	
Carbon																		
Soil Organic Matter (SOM)	TM132	%	<0.35	1.35	2.07	2.33	5.09	3.26	3.43	2.69	2.59	1.51	2.81	3.34	3.62	5.62	5.78	
Inorganics																		
pH	TM133	pH Units	<1	7.37	7.02	6.77	6.6	6.75	6.98	7.42	7.6	7.38	6.56	6.61	7.21	7.19	7.14	
Miscellaneous Organics																		
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	6.26	3.64	8.41	6.02	15.9	12.5	8.84	11.7	3.53	4.22	6.26	7.17	9.54	8.35	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.849	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUds (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
EtFOSE (1691-99-2)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
N-EtFOSA (4151-50-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFODA (16517-11-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Total PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6</					

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP320-F	GR03-SP320-G	GR03-SP320-G	GR03-SP321-A	GR03-SP321-A	GR03-SP321-A	GR03-SP321-B	GR03-SP321-B	GR03-SP321-C	GR03-SP321-C	GR03-SP321-D	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1	GR03-SP321-E-S1
		Depth	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10
Thornton Phase 3		Sampled Date	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025
		SDG	251119-15	251119-15	251119-15	251119-15	251119-15	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34
		Lab Sample Number	32475624	32475626	32475628	32475630	32475632	32358400	32358422	32358448	32358472	32358498	32358508	32358510	32358512	32358514	32358402	32358404	32358406	32358408
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown
Description	PM024	No units		Silt Loam	Silt Loam	Silt Loam	Sandy Silt Loam	Silt Loam	Silt Loam	Sandy Silt Loam	Clay	Sandy Silt Loam	Sandy Clay	Clay	Sandy Silt Loam	Sandy Silt Loam	Sandy Clay	Silty Clay	Silty Clay	Sandy Silt Loam
Inclusion 1)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Crushed Brick	Crushed Brick	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units		None	None	None	None	Vegetation	None	Stones	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		23	27	25	26	21	30	19	17	26	17	14	30	19	15	27	20	22
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	3.41	4.05	5.02	5.14	1.18	4.91	10.3	2.05	3.84	1.46	0.559	4.43	3.31	0.69	4.64	3.83	17.4
Inorganics																				
pH	TM133	pH Units	<1	7.13	7.24	5.26	5.26	7.08	6.24	8.25	8.2	6.09	7.05	7.6	5.98	6.89	7.44	6.46	7.45	6.98
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.636	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.698	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.967
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	13.4	14.6	6.05	10.2	9.17	3.81	3.58	1.53	7.45	3.03	2.12	2.02	1.69	1.37	3.57	2.71	5.23
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Customer Sample ID				R03-SP322-B-S2	R03-SP322-C	R03-SP322-C	R03-SP322-C	R03-SP323-A	R03-SP323-A	R03-SP323-B	R03-SP323-B	R03-SP323-C	R03-SP323-C	R03-SP323-D	R03-SP323-E-S1	R03-SP323-E-S1					
Test	Depth	0.00-0.10	0.00-0.10	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	
	Sampled Date	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	
	SDG	251024-27	251024-27	251024-27	251024-27	251024-27	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	
	Lab Sample Number	32340685	32340778	32340688	32340690	32340693	32361255	32361283	32361310	32361337	32361358	32361361	32361364	32361366	32361259	32361261	32361263	32361268	32361270	32361272	
Method	Units	LOD																			
Sample Description																					
Colour	PM024	No units	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown
Description	PM024	No units	Sandy Clay Loam	Silt Loam	Sandy Clay Loam	Silt Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay	Silt Loam	Clay Loam	Silt Loam	Silty Clay Loam	Silt Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silt Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam
Inclusion 1)	PM024	No units	Stones	Vegetation	Vegetation	Brick	Stones	Vegetation	Stones	Vegetation	Vegetation	Stones	Vegetation	Stones	Vegetation	Vegetation le/Insulation Board	Stones	Stones	Vegetation	Stones	Vegetation
Inclusion 2)	PM024	No units	Vegetation	None	None	Stones	Vegetation	None	Vegetation	None	None	Vegetation	None	Vegetation	Stones	None	Stones	Vegetation	Brick	None	None
Moisture Content Ratio (% of as received sample)	PM024	%	23	23	21	18	16	29	23	17	24	22	18	20	20	18	24	19	18	19	16
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	4.43	4.57	4.86	2.36	1.76	4.74	2.67	0.798	4.15	2.71	1.66	2.95	3.03	2.17	3.36	1.46	1.13	3.22
Inorganics																					
pH	TM133	pH Units	<1	6	5.9	6.19	6.25	6.55	5.62	5.94	6.42	5.54	6.21	6.56	6.96	7.1	7.16	6.18	6.83	6.77	6.14
Miscellaneous Organics																					
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.19	<0.5	<0.5	0.813	<0.5	<0.5	<0.5	<0.5	<0.5	0.659
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	0.821	<0.5	<0.5	<0.5	<0.5	<0.5	1.37	<0.5	<0.5	0.825	0.732	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	&															

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP323-E-S1	GR03-SP323-E-S1	GR03-SP323-E-S2	GR03-SP323-E-S2	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S1	GR03-SP324-A-S2	GR03-SP324-A-S2	GR03-SP324-B	GR03-SP324-B	GR03-SP324-C	GR03-SP324-C	GR03-SP324-D	GR03-SP324-D	GR03-SP324-D	
		Depth	0.50-0.60	0.50-0.60	0.50-0.60	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.40-0.50	0.40-0.50	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.00-0.10	0.30-0.40
Thornton Phase 3		Sampled Date	27/10/2025	27/10/2025	27/10/2025	27/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
		SDG	251029-28	251029-28	251029-28	251029-28	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17	251103-17
		Lab Sample Number	32361274	32361277	32361280	32361287	32389619	32389624	32389629	32389634	32389639	32389642	32389644	32389646	32389648	32389653	32389655	32389660	32389662	32389667
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown
Description	PM024	No units		Clay Loam	Silty Clay Loam	Clay Loam	Clay Loam	Silt Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam
Inclusion 1)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Stones	Brick	Stones	Stones	Vegetation	Vegetation	Stones	Stones	Metal	Vegetation	Vegetation	Stones	Stones
Inclusion 2)	PM024	No units		None	None	None	None	Vegetation	Stones	Vegetation	Vegetation	None	None	Vegetation	Vegetation	Stones	None	None	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		17	17	16	17	23	24	20	21	18	19	23	19	21	19	16	19	24
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	1.12	0.965	1.06	1.35	5.74	4.33	2.38	3.53	3.03	3.21	5.22	2.17	3.29	6.31	2.84	2.69	6.24
Inorganics																				
pH	TM133	pH Units	<1	6.96	7.13	6.76	7.06	6.86	7.73	7.39	7.3	7.44	7.44	7.76	8.22	7.65	6.7	7.55	7.41	7.18
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.57	3.08	3.43	4.55	2.04	1.19	2.58	3.35	2.76	4.54	1.91	2.17	3.02	1.64	2.44	1.81	2.74
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFechS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&lt		

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Copper Sample ID	GR03-SP324-D	GR03-SP324-E	GR03-SP324-F	GR03-SP324-G	GR03-SP324-H	GR03-SP324-I	GR03-SP324-J	GR03-SP324-K	GR03-SP324-L	GR03-SP324-M	GR03-SP324-N	GR03-SP324-O	GR03-SP324-P	GR03-SP324-Q	GR03-SP324-R	GR03-SP324-S	GR03-SP324-T	GR03-SP324-U
Thornton Phase 3	Depth	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.10-0.20	0.20-0.30	0.50-0.60	0.10-0.20	
	Sampled Date	31/10/2025	31/10/2025	27/10/2025	31/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	
	SDG	251103-17	251103-17	251103-17	251103-17	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	
	Lab Sample Number	32389670	32389672	32389674	32389676	32361289	32361291	32361296	32361298	32361300	32361302	32361304	32361312	32361314	32361319	32361321	32361323	32361325	32361327	
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown
Description	PM024	No units	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silt Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Silt Loam
Inclusion 1)	PM024	No units	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	Plastic	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%	19	22	23	23	32	18	18	25	17	13	32	20	18	29	26	17	18	30
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	4.47	6.12	5.67	5.88	10.2	1.98	1.38	4.71	1.62	2.21	7.17	2.41	1.79	7.81	5.1	2.45	2.93
Inorganics																				
pH	TM133	pH Units	<1	7.42	6.99	7.09	7.97	7.57	8.36	8.2	7.76	8.28	8.32	7.58	8.1	8.46	7.58	7.85	8.11	7.17
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMObA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	5.32	2.59	2.48	23.2	8.22	3.98	4.82	1.69	2.06	20.9	4.5	1.73	2.67	7.87	5.36	2.12	33.8
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFeCHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5</				

Thornton Phase 3	Customer Sample ID		3R03-SP325-D-S2	GR03-SP325-E	GR03-SP325-E	GR03-SP325-E	GR03-SP325-F	GR03-SP325-F	GR03-SP325-F	GR03-SP325-G	GR03-SP325-G	GR03-SP325-G	GR03-SP326-A	GR03-SP326-A	GR03-SP326-A	GR03-SP326-B	GR03-SP326-B	GR03-SP326-B	GR03-SP326-C-S1	GR03-SP326-C-S1	GR03-SP326-C-S1
	Depth	0.10-0.20	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.30-0.40	
	Sampled Date	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	27/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	24/10/2025	
	SDG	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251029-28	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	251028-21	
	Lab Sample Number	32361329	32361332	32361335	32361339	32361341	32361343	32361345	32361347	32361349	32361351	32356304	32356306	32356310	32356312	32356314	32356316	32356318	32356320	32356322	
Test	Method	Units	LOD																		
Sample Description																					
Colour	PM024	No units	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown
Description	PM024	No units	Silt Loam	Silt Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay	Silty Clay	Sandy Clay Loam	Silt Loam	Sandy Silt Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Silt Loam	Sandy Loam	Sandy Silt Loam	Sandy Silt Loam
Inclusion 1)	PM024	No units	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Stones
Moisture Content Ratio (% of as received sample)	PM024	%	34	40	18	12	27	18	15	46	18	17	23	21	16	21	21	17	23	21	19
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	9.36	11.3	2.21	1.39	6.36	1.79	2.05	13.4	1.13	0.89	19.3	7.95	0.919	21.6	7.12	1.42	11.2	4.71
Inorganics																					
pH	TM133	pH Units	<1	7.57	6.96	8.32	8.49	7.59	8.49	8.29	6.4	8.36	8.49	6.44	6.92	7.1	6.77	6.96	6.96	6.22	6.69
Miscellaneous Organics																					
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	6.33	6.35	1.76	6.26	3.53	1.33	3.06	3.73	2.33	1.55	4.61	3.5	2.8	3.09	3.57	2.73	3.47	2.95
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<					

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

			Customer Sample ID	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S1	GR03-SP327-B-S2	GR03-SP327-C	GR03-SP327-C	GR03-SP327-D	GR03-SP327-E	GR03-SP327-E	GR03-SP327-E	GR03-SP328-A	GR03-SP328-A	GR03-SP328-B	GR03-SP328-B	GR03-SP328-B	GR03-SP328-B
Test	Depth	0.10-0.20	0.20-0.30	0.20-0.30	0.50-0.60	0.20-0.30	0.20-0.30	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.20-0.30	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40
	Sampled Date	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	20/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
	SDG	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251024-27	251023-65	251023-65	251023-65	251023-65	251023-65
	Lab Sample Number	32340710	32340712	32340717	32340720	32340722	32340724	32340726	32340729	32340731	32340733	32340736	32340739	32340744	32340748	32337586	32337634	32337663	32337683	32337685
Method	Units	LOD																		
Sample Description																				
Colour	PM024	No units	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silt Loam	Loamy Sand	Sandy Loam	Loamy Sand	Sandy Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
Inclusion 1)	PM024	No units	Stones	Stones	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Brick	Brick	Stones	oncrete/Aggregate	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones	Vegetation
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	None	None	None	Stones	Stones	Stones	Vegetation	Stones	Vegetation	Vegetation	Stones	None	None	Vegetation	None
Moisture Content Ratio (% of as received sample)	PM024	%	24	22	20	17	23	20	16	14	22	21	13	25	10	15	27	19	16	26
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	4.47	5.6	2.53	0.85	3.59	2.43	5.21	5.64	3.4	4.9	2.67	8.81	2.22	2.12	4.03	1.76	0.753
Inorganics																				
pH	TM133	pH Units	<1	7.03	7.09	7.31	7.65	7.29	7.69	8.05	8.21	8.24	7.83	8.64	6.61	8.44	8.33	5.69	6.38	6.81
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPIrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	5.59	4.65	4.49	2.13	3.78	1.89	1.76	1.24	2.48	1.49	<0.5	<0.5	0.736	1.97	5.39	5.92	4.67
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10</			

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

	Customer Sample ID	GR03-SP328-B	GR03-SP328-C	GR03-SP328-D-S1	GR03-SP328-E	GR03-SP328-F	GR03-SP328-G	GR03-SP328-H	GR03-SP328-I	GR03-SP328-J	GR03-SP328-K	GR03-SP328-L	GR03-SP328-M	GR03-SP328-N	GR03-SP328-O	GR03-SP328-P	GR03-SP328-Q	GR03-SP328-R	GR03-SP328-S	GR03-SP328-T
Thornton Phase 3	Depth	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.00-0.10	0.20-0.30	0.40-0.50	0.00-0.10	0.00-0.10	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60
	Sampled Date	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
	SDG	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
	Lab Sample Number	32337687	32337689	32337691	32337588	32337590	32337592	32337594	32337596	32337598	32337600	32337602	32337608	32337614	32337616	32337618	32337620	32337622	32337624	32337626
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Loam	Clay Loam
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Vegetation	Stones	Vegetation	Vegetation	Stones	Stones	Stones	Vegetation	Vegetation	Stones	Vegetation	Stones
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	Vegetation	None	None	Vegetation	Vegetation	Vegetation	None	Stones	Vegetation	Stones	None
Moisture Content Ratio (% of as received sample)	PM024	%		15	19	20	17	34	33	24	16	28	27	22	17	19	29	14	20	25
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	0.588	2.65	2.59	0.984	6	5.72	4.72	1.41	5.21	4.76	6.03	1.6	1.81	9.05	3.6	1.98	4.88
Inorganics																				
pH	TM133	pH Units	<1	6.94	5.87	6.23	6.64	6.2	6.12	7.13	7.54	6.48	6.22	6.72	7.44	7.61	6.86	7.99	8.07	6.22
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPIrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.09	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.661	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.42	2.41	3.75	2.75	3.08	3.33	4.46	4.67	3.16	2.99	4.09	4.27	4.71	3.73	4.1	4.08	3.71
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.814	<0.5	<0.5	0.906	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0					

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP328-G	GR03-SP329-A	GR03-SP329-B	GR03-SP329-C	GR03-SP330-A	GR03-SP330-A	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S1	GR03-SP330-B-S2	GR03-SP330-B-S2	GR03-SP330-C	GR03-SP330-C	GR03-SP330-C	GR03-SP330-C	
		Depth	0.50-0.60	0.00-0.10	0.20-0.30	0.10-0.20	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.00-0.10	0.20-0.30	0.40-0.50	0.00-0.10	0.00-0.10	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10
Thornton Phase 3		Sampled Date	21/10/2025	20/10/2025	20/10/2025	20/10/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
		SDG	251023-65	251024-27	251024-27	251024-27	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
		Lab Sample Number	32337626	32340756	32340759	32340763	32414953	32414983	32415017	32415042	32415050	32415055	32415057	32414928	32415059	32414930	32414932	32414934	32414937
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Clay Loam	Silty Clay	Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay	Silty Clay
Inclusion 1)	PM024	No units		Vegetation	Stones	Vegetation	Stones	Vegetation	Stones	None	Vegetation	Vegetation	Stones	None	Vegetation	Stones	Stones	Stones	Vegetation
Inclusion 2)	PM024	No units		None	Vegetation	Stones	Vegetation	None	Vegetation	None	None	None	Vegetation	None	None	Vegetation	Vegetation	Vegetation	None
Moisture Content Ratio (% of as received sample)	PM024	%		21	34	24	28	32	17	18	24	27	22	18	26	28	32	20	20
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	1.86	15.4	4.34	9.05	5.34	1.39	1.04	2.72	3.9	2.14	1.24	3.9	4.19	4.86	1.84	1.95
Inorganics																			
pH	TM133	pH Units	<1	7.53	7.13	7.38	5.87	6.02	6.67	7.21	5.94	5.96	6.18	7.02	5.9	5.86	5.88	7.1	6.96
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	0.738	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	0.944	2.11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	5.63	<0.5	2.45	1.13	5.04	3.88	5.72	3.51	3.01	4.15	2.91	4.51	4.55	5	5.09	6.42
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	1.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	1.19	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.02	<0.6	1.02	<0.6	1.07
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	1.05	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&lt							

Thornton Phase 3	Customer Sample ID		GR03-SP330-D	GR03-SP330-D	GR03-SP330-E	GR03-SP330-E	GR03-SP330-E	GR03-SP330-F	GR03-SP330-F	GR03-SP330-F	GR03-SP330-G	GR03-SP330-G	GR03-SP330-G	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S1	GR03-SP331-A-S2
	Depth		0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.30-0.40	0.40-0.50	0.30-0.40
	Sampled Date		06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
	SDG		251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
Lab Sample Number		32414940	32414943	32414945	32414947	32414950	32414956	32414959	32414961	32414968	32414971	32414974	32414977	32414979	32414981	32414987	32414990	
Test	Method	Units	LOD															
Sample Description																		
Colour	PM024	No units	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown
Description	PM024	No units	Silty Clay Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam
Inclusion 1)	PM024	No units	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Brick	None	Vegetation
Inclusion 2)	PM024	No units	None	None	None	None	None	None	None	None	None	Stones	None	None	None	None	Concrete/Aggregate	None
Moisture Content Ratio (% of as received sample)	PM024	%	18	18	22	16	15	26	18	15	23	20	19	31	19	15	18	19
Carbon																		
Soil Organic Matter (SOM)	TM132	%	<0.35	1.76	1.28	3.83	1.32	0.648	4.78	1.7	0.819	3.38	3.43	1.53	6.41	1.42	1.45	1.32
Inorganics																		
pH	TM133	pH Units	<1	6.68	6.98	6.29	7.23	7.22	5.61	6.48	7.02	5.98	6.22	6.89	5.92	7.43	7.4	7.48
Miscellaneous Organics																		
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.767	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	8.77	5.54	3.21	4.36	2.51	3.43	4.24	2.92	2.65	3.61	4.56	5.84	5.8	4.4	4.69
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.861	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	1.05	<0.6	<0.6	1.36	0.77	<0.6	0.881	<0.6	<0.6	2.14	1.39	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP331-A-S2	GR03-SP331-B	GR03-SP331-B	GR03-SP331-B	GR03-SP331-C	GR03-SP331-C	GR03-SP331-C	GR03-SP331-D	GR03-SP331-D	GR03-SP331-E	GR03-SP331-E	GR03-SP331-E	GR03-SP331-F	GR03-SP331-F	GR03-SP331-F	GR03-SP331-G	GR03-SP331-G
		Depth	0.30-0.40	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10
Thornton Phase 3		Sampled Date	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
		SDG	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42	251107-42
		Lab Sample Number	32414993	32414996	32414999	32415001	32415006	32415008	32415011	32415015	32415019	32415021	32415024	32415026	32415028	32415030	32415036	32415038	32415040
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown
Description	PM024	No units		Silty Clay Loam	Silt Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Clay Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Loam	Sandy Silt Loam
Inclusion 1)	PM024	No units		Vegetation	Vegetation	Stones	None	Stones	Stones	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones	Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units		None	None	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	None	None	None	None	Vegetation	Vegetation	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		18	26	18	16	20	20	25	23	15	17	17	22	25	17	20	23
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	1.37	4.05	2.59	1.66	3.91	2.95	1.4	3.28	1.56	1.71	5.47	2.1	1.4	3.81	2.31	1.27
Inorganics																			
pH	TM133	pH Units	<1	7.48	6.58	7.48	7.42	4.72	4.69	6.18	4.55	5.67	5.76	4.35	4.81	5.52	4.74	4.61	5.5
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PfMOPra (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.73	0.695	<0.5	<0.5	<0.5	<0.5	0.792	<0.5	<0.5	<0.5	<0.5	<0.5
PfMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	4.68	4.67	4.41	1.2	3.3	5.61	3.82	2.87	6.3	4.46	3.27	4.95	5.02	2.21	4.33	4.3
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.86
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	0.939	0.767	<0.6	0.882	0.989	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	2.23
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&lt								

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Customer Sample ID				GR03-SP333-D	GR03-SP333-E	GR03-SP333-D	GR03-SP333-E	GR03-SP333-E	GR03-SP333-F	GR03-SP333-F	GR03-SP333-G	GR03-SP333-G	GR03-SP333-F	GR03-SP333-G	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S1	GR03-SP334-A-S2	GR03-SP334-A-S2
Thornton Phase 3	Depth	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.20-0.30	0.50-0.60	0.20-0.30	0.20-0.30	0.20-0.30
	Sampled Date	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	23/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025
	SDG	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251028-34	251016-26	251016-26	251016-26	251016-26	251016-26	251016-26	251016-26
	Lab Sample Number	32358470	32358474	32358478	32358480	32358486	32358488	32358490	32358492	32358494	32358496	32358504	32358506	32297631	32297655	32297673	32297675	32297679	32297679	32297681
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Silt Loam	Sandy Silt Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay Loam	Sandy Silt Loam	Silty Clay	Sandy Silt Loam	Sandy Clay	Sandy Silt Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam
Inclusion 1)	PM024	No units		Brick	Stones	Stones	Stones	Brick	Stones	Brick	Stones	Stones	Brick	Crushed Brick	Stones	Stones	Vegetation	Vegetation	Stones	Crushed Brick
Inclusion 2)	PM024	No units		Vegetation	Plastic	None	Vegetation	Stones	None	Vegetation	Vegetation	None	Fibres	Vegetation	Plastic	Vegetation	None	None	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		16	21	21	22	21	23	20	25	24	20	22	25	23	21	22	22	21
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	2.57	2.78	2.62	3.19	2.31	1.98	1.74	3.38	2.48	2.22	1.98	7.17	4.62	5.19	6.76	2.81	4.57
Inorganics																				
pH	TM133	pH Units	<1	7.28	7.15	6.77	7.23	7.54	6.73	7.72	7.04	7.23	7.83	7.42	6.95	7.2	7.18	7.16	7.13	7.25
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	1.46	2.75	4.25	6.62	6.16	18.7	4.54	17	14.7	4.66	2.89	3.27	1.8	2.6	3.06	4.75	2.3
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.23	<0.6	<0.6	1.68	1.04	0.999	<0.6	1.12	0.946
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONs (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUds (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.			

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Phase 3 Soils Data for Residential Properties

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Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR03-SP335-F-S2	GR03-SP335-G	GR03-SP335-G	GR03-SP335-G	GR03-SP335-G	GR03-SP335-G	GR04-SP401-A	GR04-SP401-A	GR04-SP401-B	GR04-SP401-B	GR04-SP401-B	GR04-SP401-C	GR04-SP401-C	GR04-SP401-C	GR04-SP403-A	GR04-SP403-A	GR04-SP403-A
Thornton Phase 3		Depth	0.50-0.60	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50
		Sampled Date	22/10/2025	22/10/2025	22/10/2025	22/10/2025	22/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	19/11/2025	19/11/2025	19/11/2025
		SDG	251024-36	251024-36	251024-36	251024-36	251024-36	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251121-24	251121-24	251121-24
		Lab Sample Number	32341403	32341405	32341410	32341412	32341414	32311345	32311374	32311399	32311407	32311410	32311412	32311418	32311420	32311347	32490048	32490050	32490052
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown
Description	PM024	No units	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay	Silty Clay Loam	Sandy Loam	Sandy Loam	Clay	Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Loam	Silt Loam
Inclusion 1)	PM024	No units	Stones	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Glass & Stones	Vegetation	Vegetation
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	Stones	None	None	Vegetation	None	None	None	None	None	Vegetation	Vegetation	Vegetation	None	None
Moisture Content Ratio (% of as received sample)	PM024	%	19	19	23	20	19	27	25	23	29	21	23	25	26	31	24	24	19
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	4.81	2.21	8.6	6.88	2.6	3.93	2.69	1.55	3.86	1.14	1.55	3.62	3.95	5.09	6.5	0.726
Inorganics																			
pH	TM133	pH Units	<1	8.17	8.16	7.67	7.56	7.76	6.35	6.67	7.16	5.22	6.32	6.59	5.5	5.51	6.14	7.75	8.14
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PfMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	1.36	0.826	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PfMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	2.02	1.66	1.95	3.01	6.86	1.84	2.23	1.35	1.46	1.28	1.42	6.02	2.75	12.4	3.54	3.95
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFeCHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.795	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<				

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Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Thornton Phase 3	Customer Sample ID				GR04-SP403-B	GR04-SP403-B	GR04-SP403-B	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR04-SP403-C	GR04-SP406-A	GR04-SP406-A	GR04-SP406-B-S1	GR04-SP406-B-S1	GR04-SP406-B-S1	GR04-SP406-B-S2	GR04-SP406-B-S2	GR04-SP406-C	GR04-SP406-C	
	Depth	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.20-0.30	0.50-0.60	0.20-0.30	0.20-0.30	0.00-0.10	0.20-0.30
	Sampled Date	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	19/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025
	SDG	251121-24	251121-24	251121-24	251121-24	251121-24	251121-24	251121-24	251121-24	251121-24	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251110-24	251110-24
	Lab Sample Number	32490054	32490074	32490056	32490058	32490060	32490062	32414827	32414855	32414886	32414907	32414909	32414911	32414914	32414916	32414918	32430501	32430510			
Test	Method	Units	LOD																		
Sample Description																					
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Black	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	
Description	PM024	No units		Sandy Loam	Sandy Loam	Sandy Loam	Silty Clay Loam	Silt Loam	Silt Loam	Sandy Loam	Sandy Loam	Sandy Clay	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Silt Loam	Sandy Silt Loam	
Inclusion 1)	PM024	No units		Stones	Stones	Vegetation	Stones	Brick	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation	Stones	Vegetation	Stones	Stones	Stones	Stones	
Inclusion 2)	PM024	No units		Vegetation	Vegetation	None	Vegetation	Stones	None	Crushed Brick	Crushed Brick	Vegetation	Vegetation	None	Brick	None	Vegetation	Vegetation	Vegetation	Vegetation	
Moisture Content Ratio (% of as received sample)	PM024	%		29	27	23	34	21	20	30	25	21	27	25	23	23	25	23	30	23	
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	8.62	6.34	1.79	12.8	2.86	1.78	8.26	4.91	2.05	6.09	3.9	3.36	1.74	6.91	5.07	8.33	3.95	
Inorganics																					
pH	TM133	pH Units	<1	7.72	7.84	7.89	7.44	7.89	7.89	6.59	7.48	7.79	6.15	6.03	6.34	6.8	6.11	6.26	5.94	6.54	
Miscellaneous Organics																					
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.767	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	1.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	9.12	7.28	3.19	2.93	4.6	3.63	4.71	5.09	2.25	6	5.54	4.79	5.32	5.84	5.17	6.69	7.2	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFechS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

	Customer Sample ID	GR04-SP406-C	GR04-SP406-D	GR04-SP406-E	GR04-SP406-F	GR04-SP406-G	GR04-SP406-H	GR04-SP406-I	GR04-SP406-J	GR04-SP406-K	GR04-SP406-L	GR04-SP406-M	GR04-SP406-N	GR04-SP409-A	GR04-SP409-B	GR04-SP409-C	GR04-SP409-D	GR04-SP409-E	GR04-SP409-F
Thornton Phase 3	Depth	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.55	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40
	Sampled Date	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	19/11/2025	19/11/2025	19/11/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025
	SDG	251110-24	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251121-24	251121-24	251121-24	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20
	Lab Sample Number	32430513	32414829	32414831	32414833	32414835	32414837	32414840	32490064	32490066	32490076	32375592	32375598	32375601	32375604	32375607	32375610	32375613	32375616
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Loamy Sand	Loamy Sand		Sand	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silt Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Silt Loam
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Stones	Stones		Stones oncrete/Aggregate	Concrete/Aggregate	Glass & Stones	Stones	Vegetation	Stones	Vegetation	Vegetation
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Concrete/Aggregate	Vegetation		Vegetation	Stones Tile/Insulation Board	Vegetation	Vegetation	Brick	Vegetation	None	None
Moisture Content Ratio (% of as received sample)	PM024	%		19	25	22	24	26	27	23		13	13	15	25	22	25	27	24
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	1.52	9.81	5.83	4.64	9.19	6.53	5.5	6.34	3.64	3.22	6.74	5.29	4.57	6.47	5.14	4.29
Inorganics																			
pH	TM133	pH Units	<1	6.79	7.17	7.51	7.65	6.87	7.6	7.67	8.47	8.49	8.66	7.21	7.35	7.77	6.29	6.56	7.04
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPFA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.887	<0.5	<0.5	0.759	<0.5	0.692	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	4.28	14.7	7.57	11.1	6	8.52	9.22	2.07	1.84	4.33	5.31	4.18	3.85	2.72	3.66	3.3
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFechS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	6.39	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	1.49	<0.6	<0.6	<0.6	<0.6	<0.6	1.61	<0.6	<0.6	<0.6	<0.6	1.43
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&lt		

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

			Customer Sample ID	GR04-SP409-C	GR04-SP410-A	GR04-SP410-A	GR04-SP410-A-iR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S1	GR04-SP411-A-S2	GR04-SP411-A-S2	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-B	GR04-SP411-C	GR04-SP411-C	GR04-SP411-C	GR04-SP411-D	GR04-SP411-D	
			Depth	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.50-0.60	0.50-0.60	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30
			Sampled Date	28/10/2025	16/10/2025	16/10/2025	16/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	15/10/2025	
			SDG	251031-20	251018-47	251018-47	251018-47	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	251018-46	
			Lab Sample Number	32375619	32311349	32311351	32311353	32311290	32311312	32311314	32311316	32311318	32311320	32311322	32311328	32311292	32311294	32311296	32311298	32311300	32311302
Test	Method	Units	LOD																		
Sample Description																					
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	
Description	PM024	No units		Sandy Silt Loam	Sandy Loam	Sandy Clay	Sandy Loam	Silt Loam	Clay Loam	Silt Loam	Clay Loam	Clay Loam	Silt Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	
Inclusion 1)	PM024	No units		Stones	Stones	Glass & Stones	Stones	Stones	Vegetation	Stones	None	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Tile/Insulation Board	Vegetation	Vegetation	None	Vegetation	None	None	Vegetation	None	None	None	None	None	None	None	
Moisture Content Ratio (% of as received sample)	PM024	%		24	21	19	19	28	19	19	19	21	26	27	21	26	24	25	21	31	24
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	5.91	9.79	4.74	6.22	4.4	1.61	1.69	1.68	2.48	2.55	3.14	1.86	6	2.59	3.02	1.68	4.64	4.26
Inorganics																					
pH	TM133	pH Units	<1	7.37	7.86	8.09	8.12	6.53	6.63	6.88	6.94	6.78	6.85	6.03	6.36	6.62	6.51	6.45	6.72	6.11	6.53
Miscellaneous Organics																					
PFBFA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPIA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	1.36	<0.5	1.11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.757	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.95	4.05	4.99	5.97	8.81	8.84	7.43	9.34	10.5	5.09	4.7	5.38	9.61	9.97	8.79	13.1	5.94	5.69
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6							

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

[illegible]

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR04-SP413-B	R04-SP413-C-S1	R04-SP413-C-S1	R04-SP413-C-S1	R04-SP413-C-S2	R04-SP413-C-S2	GR04-SP413-D	GR04-SP413-D	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E	GR04-SP413-E	GR04-SP416-A	GR04-SP416-A	GR04-SP416-A
		Depth	0.40-0.50	0.10-0.20	0.10-0.20	0.30-0.40	0.50-0.60	0.10-0.20	0.10-0.20	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.00-0.10	0.20-0.30	
Thornton Phase 3		Sampled Date	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	28/10/2025	09/10/2025	09/10/2025	09/10/2025	04/11/2025	04/11/2025	
		SDG	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251031-20	251011-64	251011-64	251011-64	251107-28	251107-28	
		Lab Sample Number	32375640	32375648	32375651	32375653	32375655	32375657	32375661	32375663	32375665	32375667	32375669	32375671	32375673	32281229	32281252	32281262	32412958	32412995	
Test	Method	Units	LOD																		
Sample Description																					
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	
Description	PM024	No units		Silt Loam	Sandy Silt Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Clay Loam	Silt Loam	Silty Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Silty Clay Loam	
Inclusion 1)	PM024	No units		Vegetation	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Stones	None	Stones	Vegetation	Vegetation	Vegetation	Stones	Stones	Brick	
Inclusion 2)	PM024	No units		None	Vegetation	Vegetation	Stones	Stones	Stones	Vegetation	None	Vegetation	None	Vegetation	Stones	None	Crushed Brick	Vegetation	Vegetation	Stones	
Moisture Content Ratio (% of as received sample)	PM024	%		19	31	21	23	20	33	28	38	28	19	24	28	27	17	16	14	34	
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	1.46	9.1	6.84	5.12	4.22	8.22	7.91	10.1	7.4	3.38	4.84	7.21	4.78	4.43	6.95	1.26	5.84	
Inorganics																					
pH	TM133	pH Units	<1	7.56	7.75	7.85	7.85	7.85	7.47	7.77	4.95	7.62	7.59	7.23	7.51	7.53	8.09	8.23	8.08	5.53	
Miscellaneous Organics																					
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPra (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.37	8.24	6.6	5.68	2.83	4.85	6.42	6.94	7.33	5.44	4.24	7.37	11	2.56	5.45	3.81	8.07	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.01	<0.6	<0.6	<0.6	<0.6	<0.6	1.37	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTEa (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.										

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

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Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

			Customer Sample ID	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S1	GR04-SP419-A-S2	GR04-SP419-A-S2	GR04-SP419-B	GR04-SP419-B	GR04-SP419-C	GR04-SP419-C	GR04-SP419-D	GR04-SP419-D	GR04-SP419-E	GR04-SP419-E			
			Depth	0.00-0.10	0.30-0.40	0.30-0.40	0.30-0.40	0.40-0.50	0.30-0.40	0.30-0.40	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10
Thornton Phase 3			Sampled Date	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025	17/11/2025
			SDG	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15	251119-15
			Lab Sample Number	32475634	32475580	32475588	32475636	32475582	32475590	32475638	32475643	32475645	32475647	32475649	32475651	32475653	32475655	32475657	32475659	
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	
Description	PM024	No units		Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Silt Loam	Sandy Clay Loam	Silt Loam	Silt Loam	Sandy Clay Loam	Sandy Clay Loam	
Inclusion 1)	PM024	No units		Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	
Inclusion 2)	PM024	No units		None	None	None	None	None	None	None	None	Stones	Stones	Vegetation	Stones	None	None	Stones	Vegetation	None
Moisture Content Ratio (% of as received sample)	PM024	%		36	26	20	27	29	28	30	25	24	24	22	19	24	20	19	26	
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	3.78	1.86	2	3.24	2.26	2.69	4.65	4.02	4.15	4.1	3.19	1.56	4.02	2.64	1.2	3.31	
Inorganics																				
pH	TM133	pH Units	<1	6.16	7.11	7.14	7	6.39	6.87	6.64	7.39	7.54	6.75	7.2	7.33	7	6.97	6.82	6.17	
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.981	<0.5	<0.5	1.03	<0.5	<0.5	0.758	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	9.42	8.86	9.31	11.3	7.52	8.8	6.04	5.22	9.41	4.43	6.41	6.6	4.96	3.96	4.5	7.05	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	1.28	<0.5	0.67	0.763	1.24	1.22	1.18	1.06	1.03	<0.5	1.08	0.7	0.995	0.797	0.653	0.915	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	1.26	<0.5	<0.5	<0.5	<0.5	<0.5	1.26	<0.5	<0.5	0.917	0.684	<0.5	<0.5	<0.5	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	GR04-SP419-E	GR04-SP419-E	GR04-SP420-A	GR04-SP420-A	GR04-SP420-A	GR04-SP420-B	GR04-SP420-B	GR04-SP420-B	GR04-SP420-C	GR04-SP420-C	GR04-SP420-C	GR04-SP420-C	GR04-SP421-A	GR04-SP421-A	GR04-SP421-B	GR04-SP421-B	GR04-SP421-B
		Depth	0.30-0.40	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60
Thornton Phase 3		Sampled Date	17/11/2025	17/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025
		SDG	251119-15	251119-15	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65
		Lab Sample Number	32475661	32475688	32414844	32414850	32414852	32414857	32414859	32414861	32414863	32414865	32414867	32337628	32337630	32337632	32337637	32337641	32337643
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Clay Loam	Sandy Clay Loam	Loamy Sand	Loamy Sand	Silt Loam	Loamy Sand	Sandy Silt Loam	Silty Clay Loam	Loamy Sand	Sandy Silt Loam	Sandy Silt Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam
Inclusion 1)	PM024	No units		Vegetation	Stones	Vegetation	Stones	Brick	Vegetation	Vegetation	Stones	Vegetation	Tile/Insulation Board	Vegetation	Stones	Stones	Vegetation	Vegetation	Stones
Inclusion 2)	PM024	No units		Stones	Vegetation	None	Vegetation	Stones	Stones	None	Vegetation	Stones	Vegetation	None	Vegetation	Vegetation	None	Stones	Stones
Moisture Content Ratio (% of as received sample)	PM024	%		18	21	25	23	24	27	25	21	26	23	24	21	20	18	23	19
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	2.26	3.83	8.69	5.15	3.45	8.33	6.1	3.22	6.84	5.4	1.88	4.83	3.88	1.42	6.24	3.43
Inorganics																			
pH	TM133	pH Units	<1	6.29	6.37	6.75	7.28	7.45	6.42	7.38	7.34	6.27	6.87	7	7.77	7.81	7.61	7.82	7.89
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	1.63	<0.5	<0.5	<0.5	1.74	<0.5	0.8	1.22	1.17	<0.5	<0.5	<0.5	0.656	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.754	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	5.21	16.7	4.96	4.74	4.5	4.02	5.31	6.29	2.65	4.09	4.04	1.44	0.897	1.16	1.61	1.41
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	0.682	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	0.616	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	1.08	<0.6	<0.6	<0.6	<0.6	<0.6	0.91	1.16	<0.6	1.91	0.955	<0.6	2	1.03
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5								

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

				Customer Sample ID	GR04-SP421-C	GR04-SP421-C	GR04-SP421-C	GR04-SP422-A	GR04-SP422-A	GR04-SP422-A	GR04-SP422-B	GR04-SP422-B	GR04-SP422-B	GR04-SP422-C	GR04-SP422-C	GR04-SP422-C	GR04-SP423-A	GR04-SP423-A	GR04-SP423-A	GR04-SP425-A	GR04-SP425-A	GR04-SP425-A
				Depth	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.20-0.30	0.40-0.50
Thornton Phase 3				Sampled Date	21/10/2025	21/10/2025	21/10/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025
				SDG	251023-65	251023-65	251023-65	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14
				Lab Sample Number	32337645	32337651	32337653	32497973	32497976	32497978	32497980	32497982	32497984	32497986	32497989	32498067	32475498	32475460	32475464	32475467	32475474	32475477
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown
Description	PM024	No units		Sandy Loam	Sandy Clay Loam	Sandy Loam	Silt Loam	Silty Clay Loam	Clay Loam	Silt Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Silt Loam	Silty Clay
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Brick	Stones	Stones	Stones	Brick	Stones	Stones	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Brick	Vegetation
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Crushed Brick	None	Stones	Stones	Stones	None	Stones	None
Moisture Content Ratio (% of as received sample)	PM024	%		17	19	20	21	18	19	28	18	20	24	17	16	29	20	27	30	25	25	25
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	4.19	8.76	2.6	3.24	2.48	6.05	5.43	1.28	2.29	3.83	2.91	5.03	4.31	3.29	2.9	8.53	7.95	1.9	
Inorganics																						
pH	TM133	pH Units	<1	7.8	8.13	7.81	8.09	8.58	7.99	7.2	8.39	8.46	7.42	8.52	8.59	8.14	7.95	8.19	6.79	7.32	7.6	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFFPA (2706-90-3)	TM440	ug/kg	<0.5	0.759	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.48	1.03	0.768	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	0.91	2.36	1.66	3.86	1.73	1.58	4.09	2.83	2.82	5.39	2.37	1.73	2.52	2.77	5.21	2.29	3.39	3.26	3.26
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	0.931	<0.6	<0.6	1.3	<0.6	<0.6	<0.6	1.22	<0.6	<0.6	1.1	<0.6	<0.6	2.02	1.38	<0.6	1.63	1.86	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440																					

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Test	Method	Units	Customer Sample ID																			
			GR04-SP425-B	GR04-SP425-B	GR04-SP425-B	GR04-SP425-C	GR04-SP425-C	GR04-SP425-C	GR04-SP426-A	GR04-SP426-A	GR04-SP426-B	GR04-SP426-B	GR04-SP426-C	GR04-SP426-C	GR04-SP427-A	GR04-SP427-A	GR04-SP427-B	GR04-SP427-B				
			Depth	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.50-0.60	0.10-0.20
			Sampled Date	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	21/10/2025	04/11/2025	04/11/2025	04/11/2025
		SDG	251119-14	251119-14	251119-14	251119-14	251119-14	251119-14	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251023-65	251107-28	251107-28	251107-28	251107-28	
		Lab Sample Number	32475480	32475485	32475489	32475501	32475493	32475496	32337655	32337661	32337665	32337667	32337673	32337675	32337677	32337679	32337681	32412998	32413001	32413006	32413016	
Sample Description																						
Colour	PM024	No units	Grey	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Grey	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown
Description	PM024	No units	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Clay	Sandy Clay	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Loam	Silty Clay Loam	Silt Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam
Inclusion 1)	PM024	No units	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Stones	Vegetation	Stones	Stones	Stones	Vegetation	Vegetation	Stones
Inclusion 2)	PM024	No units	Stones	None	None	Stones	Vegetation	Stones	Plastic	Stones	Plastic	Vegetation	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	None	None	None	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%	36	29	25	36	22	19	22	18	17	25	18	20	25	18	18	22	20	17	21	
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	8.34	11	2.57	8.59	5.88	2.84	5.55	12.6	0.907	5	2.6	2.24	6	11	1.84	3.6	2.03	0.645	4.52
Inorganics																						
pH	TM133	pH Units	<1	7.36	7.34	7.57	6.19	6.87	6.83	7.34	7.48	7.83	6.58	7.6	7.51	7.09	7.3	7.51	6.32	6.25	6.53	6.66
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.853	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.83	3.36	2.75	1.9	5.7	2.8	3.62	3.18	1.08	3.8	2.18	1.76	3.75	4.57	2.62	1.89	2.51	2.08	0.903
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFeCHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	1.96	1.9	<0.6	1.84	<0.6	<0.6	<0.6	<0.6	0.816	<0.6	<0.6	<0.6	<0.6	<0.6	1.06	<0.6	<0.6	1.09	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTEA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5														

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

			Customer Sample ID	GR04-SP427-B	GR04-SP427-B	GR04-SP427-C	GR04-SP427-C	GR04-SP427-C	GR04-SP427-C	GR04-SP429-A	GR04-SP429-A	GR04-SP429-A	GR04-SP429-B	GR04-SP429-B	GR04-SP429-B	GR04-SP429-C	GR04-SP429-C	GR04-SP429-C	GR04-SP430-A	GR04-SP430-A	GR04-SP430-A	GR04-SP430-B
Thornton Phase 3		Depth		0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40
		Sampled Date		04/11/2025	04/11/2025	04/11/2025	04/11/2025	04/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	05/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	
		SDG		251107-28	251107-28	251107-28	251107-28	251107-28	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251107-41	251115-42	251115-42	251115-42	251115-42	
		Lab Sample Number		32413020	32413023	32413027	32413031	32413035	32414874	32414876	32414882	32414889	32414892	32414895	32414899	32414901	32414904	32461091	32461097	32461102	32461109	32461175
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units		Light Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Grey	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Silty Clay Loam	Sandy Clay	Silt Loam	Silty Clay Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Silt Loam	Sandy Silt Loam	Silty Clay Loam	Silty Clay Loam	Sandy Silt Loam	Silty Clay	Loamy Sand	Loamy Sand	Sandy Clay	Loamy Sand	Sandy Loam
Inclusion 1)	PM024	No units		Brick	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation	Vegetation	Stones	Vegetation	Stones	Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units		Stones	None	Stones	Vegetation	None	None	Stones	None	Vegetation	Vegetation	None	None	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		22	18	24	20	18	31	21	16	35	27	19	33	30	19	24	24	25	27	27
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	3.76	1.05	4.21	2.67	1.11	5.57	2.48	0.941	10	8.69	1.84	7.69	2.45	1.57	19.1	24.1	13.7	17.2	21.6
Inorganics																						
pH	TM133	pH Units	<1	6.27	6.73	7.27	7.42	7.53	5.73	5.99	6.26	5.76	5.88	6.31	6.35	6.9	7.15	7.81	8.08	7.71	7.64	7.8
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.781	<0.5	<0.5	<0.5	<0.5	<0.5	1.91	<0.5	<0.5	0.953	0.82
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	0.932	1.34	0.685	0.805	0.738	8.96	8.79	4.92	3.6	1.33	4.43	4.52	5.35	2.55	1.96	2.15	4.86	2.6	3.07
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFeCHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	1.35	<0.6	<0.6	<0.6	<0.6	<0.6	1.35	0.857	0.942	2.12	<0.6	<0.6	1.2	<0.6	<0.6	1.05	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDaA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5																		

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

	Customer Sample ID	GR04-SP430-B	GR04-SP430-C	GR04-SP430-D	GR04-SP430-E	GR04-SP434-A	GR04-SP434-B	GR04-SP434-C	GR04-SP434-D	GR04-SP435-A	GR04-SP435-B	GR04-SP435-C	GR04-SP435-D	GR04-SP436-A	GR04-SP436-B	GR04-SP436-C	GR04-SP436-D	GR04-SP437-A	GR04-SP437-B
	Depth	0.50-0.60	0.10-0.20	0.30-0.40	0.50-0.60	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	
Thornton Phase 3	Sampled Date	13/11/2025	13/11/2025	13/11/2025	13/11/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	
	SDG	251115-42	251115-42	251115-42	251115-42	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	
	Lab Sample Number	32461115	32461122	32461125	32461129	32375694	32375696	32375698	32375700	32375702	32375704	32375709	32375713	32375715	32375717	32375719	32375726	32375728	
Test	Method	Units	LOD																
Sample Description																			
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown
Description	PM024	No units		Sandy Loam	Sandy Loam	Loamy Sand	Loamy Sand	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	
Inclusion 1)	PM024	No units		Vegetation	Stones	Stones	Stones	Stones	Concrete/Aggregate	Vegetation	Stones	Brick	Stones	Stones	Vegetation	Vegetation	Stones	Stones	Stones
Inclusion 2)	PM024	No units		Stones	Vegetation	Vegetation	Glass	Vegetation	Stones	None	Vegetation	Stones	Vegetation	Vegetation	Stones	Stones	Vegetation	Stones	Stones
Moisture Content Ratio (% of as received sample)	PM024	%		28	28	32	26	24	21	18	23	24	22	19	21	17	16	24	17
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	10.8	25.5	47.1	34	6.84	5.43	0.748	6.76	5.28	3.64	1.26	7.88	4	4.83	8.95	2.81
Inorganics																			
pH	TM133	pH Units	<1	7.52	7.78	8.13	8.26	6.91	8.02	7.71	7.7	8.21	8.32	8.16	7.18	7.41	7.35	6.97	7.34
Miscellaneous Organics																			
PFBFA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	1.34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.14	1.16	0.934	1.15	0.809	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpa (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.61	0.778	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	5.44	2.28	4.05	1.79	2.28	1.96	1.04	1.51	3.47	2.34	<0.5	5.07	3.13	3.73	3.84	2.47
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHps (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	0.934	<0.6	<0.6	<0.6	<0.6	<0.6	0.911	1.04	<0.6	<0.6	1.19	<0.6	<0.6	0.962	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTEA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&								

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Thornton Phase 3	Customer Sample ID				GR04-SP435-C	GR04-SP436-A	GR04-SP435-C	GR04-SP436-A	GR04-SP436-B	GR04-SP436-B	GR04-SP436-B	GR04-SP436-C	GR04-SP436-C	GR04-SP437-A	GR04-SP437-A	GR04-SP437-B	GR04-SP437-C	GR04-SP437-C	GR04-SP437-C	GR04-SP437-C
	Depth	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10
	Sampled Date	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
	SDG	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251031-21	251107-27	251107-27	251107-27	251107-27	251107-27	251107-27	251107-27
Lab Sample Number	32375730	32375732	32375734	32375738	32375740	32375742	32375744	32375749	32375751	32375753	32375755	32375757	32412910	32412915	32412917	32412919	32412921	32412923	32412925	
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Light Brown
Description	PM024	No units	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Silt Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Sandy Silt Loam	Sandy Clay Loam	Silt Loam	Loamy Sand	Sandy Loam	Silty Clay
Inclusion 1)	PM024	No units	Stones	Stones	Brick	Stones	Vegetation	Stones	Stones	Stones	Vegetation	Brick	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Stones	Vegetation	Vegetation
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Stones	Vegetation	None	Vegetation	Vegetation	Vegetation	None	Vegetation	None	None	None	Vegetation	None	Vegetation	Vegetation	None
Moisture Content Ratio (% of as received sample)	PM024	%	18	18	14	23	20	16	22	21	27	24	20	18	25	21	20	15	18	19
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	4.88	4.15	2.03	3.33	2.4	0.771	3.98	3.69	3.62	4.48	1.97	0.84	6.88	5.78	6.81	4.65	5.97
Inorganics																				
pH	TM133	pH Units	<1	6.81	8.1	7.97	6.87	7.01	7.14	7.71	8.12	7.55	6.38	7.04	7.35	7.53	7.97	8.17	7.89	8.07
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	0.721	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	2.51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.29	2.47	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	3.05	2.6	0.668	2.65	2.19	1.15	1.59	1.7	4.81	2.59	2.21	1.74	1.75	2.03	4.03	0.666	1.36
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	2.22	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	1.34	2.27	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	1.09	0.891	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.11	1.53	<0.6	<0.6	1.08
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		

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Phase 3 Soils Data for Residential Properties

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Test	Customer Sample ID			POUL-SP504-D	POUL-SP504-E	POUL-SP504-F	POUL-SP504-G	POUL-SP504-H	POUL-SP504-I	POUL-SP504-J	POUL-SP504-K	POUL-SP504-L	POUL-SP504-M	POUL-SP504-N	POUL-SP504-O	POUL-SP504-P	POUL-SP504-Q	POUL-SP504-R	POUL-SP504-S
	Depth	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.10-0.20	0.10-0.20	0.10-0.20	0.00-0.10	0.00-0.10	0.10-0.20	0.10-0.20
	Sampled Date	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025	14/10/2025
	SDG	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-37	251016-65	251016-65	251016-65	251016-65	251016-65
Lab Sample Number	32298791	32298793	32298799	32298803	32298805	32298807	32298809	32298811	32298813	32298817	32301183	32301210	32301231	32301239	32301243	32301245	32301247		
Method	Units	LOD																	
Sample Description																			
Colour	PM024	No units	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam
Inclusion 1)	PM024	No units	Stones	Stones	Stones	Stones	Vegetation	Vegetation	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Stones	Stones	Stones	Stones
Moisture Content Ratio (% of as received sample)	PM024	%	16	18	17	18	27	20	19	27	20	19	19	16	16	16	24	17	23
Carbon																			
Soil Organic Matter (SOM)	TM132	%	<0.35	1.71	4.14	3.83	3.93	15.8	5.78	4.47	18.4	5.26	4.84	5.72	7.41	6.83	9.5	9.09	10.1
Inorganics																			
pH	TM133	pH Units	<1	6.91	5.96	5.95	6.17	7.38	7.12	7.06	7.06	6.6	6.55	7.9	8.18	8.23	8.25	7.61	7.9
Miscellaneous Organics																			
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.712
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.928	0.629	<0.5	<0.5	<0.5	1.79
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	6.03	9.29	13.5	11.8	6.45	5.41	7.53	4.82	3.54	4.33	51.8	43.5	14.7	6.57	30.8	8.54
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.644	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.38	2.06	1.14	<0.5	1.52	1.9
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	2.28	2.15	1.67	<0.6	1.2	1.47
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.86	2.62	1.5	1.1	2.55	0.963
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.89	1.36	0.789	<0.6	1.94	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	2.13	1.28	0.865	0.729	1.89	<0.6
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTEA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.39	0.957	<0.5	<0.5	1.21	0.795
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.97	0.689	<0.5	<0.5	0.997	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

[illegible]

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

		Customer Sample ID	POUL-SP511-A	POUL-SP511-B	POUL-SP511-C	POUL-SP511-D	POUL-SP511-E	POUL-SP511-F	POUL-SP511-G	POUL-SP511-H	POUL-SP511-I	POUL-SP511-J	POUL-SP511-K	POUL-SP511-L	POUL-SP511-M	POUL-SP511-N	POUL-SP511-O	POUL-SP511-P	POUL-SP511-Q	POUL-SP511-R
		Depth	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.30-0.40	0.50-0.60	0.30-0.40	0.30-0.40	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60
Thornton Phase 3		Sampled Date	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025	18/11/2025
		SDG	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24	251122-24
		Lab Sample Number	32497991	32497890	32497994	32498008	32498013	32497893	32498019	32497906	32497919	32498024	32497908	32497921	32497896	32498030	32498035	32497899	32498040	32498048
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Silty Clay Loam	Loamy Sand	Silty Clay	Silty Clay Loam	Silt Loam	Sandy Clay Loam	Silt Loam	Silt Loam	Silty Clay	Silt Loam	Silty Clay Loam	Loamy Sand	Loamy Sand	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Vegetation	Plastic	Stones	Vegetation	Stones	Stones	Vegetation	Stones	Vegetation	Vegetation	Stones	Vegetation
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation	None	Vegetation	Vegetation	Stones	Vegetation	None	Stones	Vegetation	None
Moisture Content Ratio (% of as received sample)	PM024	%		27	21	18	23	23	15	25	23	21	16	20	20	21	22	22	23	24
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	12.6	12.9	2.14	9.93	11.4	0.945	23.1	11.7	10.3	1.83	4.43	4.21	17.1	14.8	5	16.5	13.3
Inorganics																				
pH	TM133	pH Units	<1	6.74	7.84	7.88	5.9	6.24	6.93	6.38	6.46	6.54	7.1	7.05	7.36	6.63	6.42	7.3	7.36	7.52
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	0.655	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	2.3	3.27	1.06	3.02	3.49	1.03	3.67	2.79	2.37	1.35	1.51	2.99	2.41	2.03	1.59	4.93	5.08
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFeCHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	2.33	1.07	<0.6	1.36	1.49	<0.6	2.3	1.37	0.869	<0.6	<0.6	<0.6	4.03	2.93	<0.6	2.19	2.11
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0				

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

	Customer Sample ID	POUL-SP512-A	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S1	POUL-SP512-B-S2	POUL-SP512-B-S2	POUL-SP512-B-S2	POUL-SP512-B-S2	POUL-SP512-C	POUL-SP512-C	POUL-SP512-C	POUL-SP513-A	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1	POUL-SP513-B-S1
Thornton Phase 3	Depth	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.20-0.30	0.50-0.60	0.20-0.30	0.20-0.30	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.40-0.50
	Sampled Date	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	16/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
	SDG	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-47	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49
	Lab Sample Number	32311376	32311378	32311380	32311386	32311389	32311391	32311393	32311395	32311397	32311401	32311403	32311405	32311511	32311535	32311556	32311558	32311564	32311566	32311566
Test	Method	Units	LOD																	
Sample Description																				
Colour	PM024	No units		Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Silty Clay Loam	Silt Loam	Silt Loam	Silt Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Silty Clay	Silty Clay	Sandy Clay Loam	Silt Loam	Silt Loam	Sandy Loam	Loamy Sand
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Stones	Vegetation	Stones	Stones	Vegetation	Glass & Stones	Stones	Stones	Stones	Stones	Stones	Brick
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Concrete/Aggregate	Vegetation	Vegetation	Vegetation	Vegetation	Stones
Moisture Content Ratio (% of as received sample)	PM024	%		27	20	19	22	22	25	19	20	21	30	23	18	20	21	21	24	28
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	7.19	4.84	2.55	11.7	6.72	9.64	1.93	3.65	4.52	6.52	4.48	1.81	6.57	2.4	2.12	11.2	13.2
Inorganics																				
pH	TM133	pH Units	<1	6.29	6.5	7.14	6.41	6.51	6.45	7.23	6.86	6.49	6.39	6.63	7.08	8.05	7.92	7.71	7.24	7.98
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.81	0.926
PFMOPra (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPa (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.56	2.85	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	2.93	2.64	6.79	4.4	4.26	3.08	4.42	3.09	2.7	3.49	5.68	2.74	1.97	4.1	2.57	7.3	19.6
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	1.02	<0.6	<0.6	<0.6	<0.6	0.945	<0.6	<0.6	2.54	<0.6	<0.6	2.49	2.3	2.09
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTdS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5												

Land at Thornton-Cleveleys

Phase 3 Soils Data for Residential Properties

Appendix J - Tables

Customer Sample ID				POUL-SP513-B-S1	POUL-SP513-B-S2	POUL-SP513-B-S2	POUL-SP513-C	POUL-SP513-D	POUL-SP513-D	POUL-SP513-E	POUL-SP513-E	POUL-SP513-F	POUL-SP513-F	POUL-SP513-F	POUL-SP513-G	POUL-SP513-G	POUL-SP513-G	POUL-SP513-G			
Thornton Phase 3	Depth	0.40-0.50		0.40-0.50		0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60
	Sampled Date	17/10/2025		17/10/2025		17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025	17/10/2025
	SDG	251018-49		251018-49		251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49	251018-49
	Lab Sample Number	32311568		32311513		32311570	32311515	32311517	32311519	32311521	32311523	32311525	32311531	32311533	32311537	32311539	32311541	32311543	32311545	32311548	32311550
Test	Method	Units	LOD																		
Sample Description																					
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Clay	Silt Loam	Silt Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sand	Sand	Silty Clay Loam	Sandy Loam	Silty Clay Loam	Clay Loam	Sandy Loam	Sandy Clay Loam	Loamy Sand	Sandy Loam	Silt Loam	Silty Clay
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Vegetation	Stones	Stones	Stones	Stones	Stones	Stones	None	Stones	Stones	Brick	Stones	Stones	Brick
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Concrete/Aggregate	Vegetation	Vegetation	Vegetation	Vegetation	None	Vegetation	None	Vegetation	Vegetation	Stones	Tile/Insulation Board	Vegetation	Stones
Moisture Content Ratio (% of as received sample)	PM024	%		30	23	23	21	21	17	23	22	22	24	20	18	22	21	21	25	22	21
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	12.6	7.67	7.93	15.4	8.83	1.72	15	13.5	6.5	18.4	3.09	2.12	13.5	20.5	4.36	18.1	12.7	4.69
Inorganics																					
pH	TM133	pH Units	<1	7.53	7.72	7.82	7.42	7.58	7.96	7.41	7.7	7.56	7.32	7.17	7.44	7.5	7.54	7.61	7.34	7.17	7.4
Miscellaneous Organics																					
PFBA (375-22-4)	TM440	ug/kg	<0.5	1.76	<0.5	<0.5	<0.5	0.953	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPIA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	2.2	1.13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	27.1	20.8	54.6	3.22	4.98	3.72	2.35	4.17	3.46	2.54	2.86	1.71	2.26	2.52	3.47	2.85	2.97	3.8
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	0.733	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	3.38	1.42	2.18	2.37	2.68	<0.6	1.58	1.2	<0.6	1.93	<0.6	<0.6	2.08	0.868	<0.6	1.89	1.48	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTyDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11CI-PF3OUds (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0				

Thornton Phase 3	Customer Sample ID		
	Depth		
	Sampled Date		
	SDG		
	Lab Sample Number		
Test	Method	Units	LOD
Sample Description			
Colour	PM024	No units	
Description	PM024	No units	
Inclusion 1)	PM024	No units	
Inclusion 2)	PM024	No units	
Moisture Content Ratio (% of as received sample)	PM024	%	
Carbon			
Soil Organic Matter (SOM)	TM132	%	<0.35
Inorganics			
pH	TM133	pH Units	<1
Miscellaneous Organics			
PFBA (375-22-4)	TM440	ug/kg	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0
PFEESA (113507-82-7)	TM440	ug/kg	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5
PFHxS (355-46-4)	TM440	ug/kg	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0
PFNA (375-95-1)	TM440	ug/kg	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5
Branched PFOS	TM440	ug/kg	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9
EtFOSE (1691-99-2)	TM440	ug/kg	<5.0
N-EtFOSA (4151-50-2)	TM440	ug/kg	<0.5
PFODA (16517-11-6)	TM440	ug/kg	<0.5
Total PFOS	TM440	ug/kg	<0.6
Total Identified PFAS	TM440	ug/kg	<51.0

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

Thornton	Customer Sample ID				GR01-SP201	GR01-SP201	GR01-SP201	GR01-SP201A	GR01-SP201A	GR01-SP202	GR01-SP202	GR01-SP202A	GR01-SP202A	GR01-SP203	GR01-SP203	GR01-SP203A	GR01-SP203A	GR01-SP204	GR01-SP204	GR01-SP204A	GR01-SP204A	GR01-SP204A	GR01-SP206
	Depth	0.00-0.10	0.20-0.30	0.40-0.50		0.10-0.20	0.50-0.60	0.30-0.40	0.40-0.50	0.10-0.20	0.50-0.60	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.30-0.40	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.30-0.40	
	Sampled Date	21/02/2025	21/02/2025	21/02/2025		21/02/2025	21/02/2025	25/02/2025	25/02/2025	25/02/2025	25/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	04/03/2025	
	SDG	250222-35	250222-35	250222-35		250222-35	250222-35	250226-56	250226-56	250226-56	250226-56	250221-60	250221-60	250222-35	250222-35	250222-35	250222-35	250222-35	250222-35	250222-35	250308-25		
Test	Lab Sample Number	31114352	31114354	31114357		31114359	31114363	31129132	31129159	31129164	31129170	31109946	31109948	31114350	31114373	31114417	31114419	31114421	31114423	31114426	31183360		
	Method	Units	LOD																				
	Sample Description																						
	Colour	PM024	No units		Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown
Description	PM024	No units		Sandy Loam	Sandy Loam	indy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Sandy Loam	Silty Clay Loam	Silt Loam	Silty Clay Loam	Sandy Loam	Silty Clay Loam	Sandy Clay Loam	
Inclusion 1)	PM024	No units		Stones	Brick	Stones	Stones	Stones	Stones	Vegetation	Stones	Vegetation	Stones	Vegetation	Stones	Stones	Stones	Stones	Stones	Vegetation	Vegetation	Crushed Brick	
Inclusion 2)	PM024	No units		Vegetation	Vegetation	nsulation Board	Vegetation	Brick	Vegetation	None	Vegetation	None	Vegetation	Crushed Brick	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	None	Stones	
Moisture Content Ratio (% of as received sample)	PM024	%		28	15	15	15	15	22	19	27	20	22	21	22	21	23	21	23	21	18	20	
Carbon																							
Soil Organic Matter (SOM)	TM132	%	<0.35	9.67	0.967	2.43	2.36	4.05	4.28	2.26	6.55	0.841	4.21	3.02	3.91	2.93	4.24	2.9	4.97	2.47	0.876	3.64	
Inorganics																							
pH	TM133	pH Units	<1	7.84	8.72	8.63	8.48	8.58	5.98	6.59	5.53	6.64	7.93	8.08	8.25	8.05	7.24	7.3	7.96	7.8	7.83	8.28	
Miscellaneous Organics																							
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PfMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	TM440	ug/kg	<0.5	1.71	<0.5	<0.5	0.607	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.781	0.788	<0.5		
PfMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	TM440	ug/kg	<0.5	1.65	2.5	4.35	0.923	3.51	13.8	7.31	6.61	3.68	1.18	1.46	0.892	1.06	1.84	2.04	2.08	1.98	1.17	4.82	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	1.01	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
EiFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4		
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFDaA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
11 Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFOSA (754-91-6)	TM																						

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

Test	Customer Sample ID			GR01-SP206	GR01-SP206A	GR01-SP206A	GR01-SP207	GR01-SP207	GR01-SP207A	GR01-SP207A	GR01-SP208	GR01-SP208	GR01-SP208	GR01-SP208A	GR01-SP208A	GR01-SP209	GR01-SP209A	GR01-SP209B	GR01-SP209B	GR01-SP210	GR01-SP210
	Depth	0.40-0.50	0.10-0.20	0.20-0.30	0.00-0.10	0.40-0.50	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.50-0.60	0.00-0.10	0.00-0.10	0.30-0.40	0.50-0.60	0.30-0.40	0.50-0.60	0.30-0.40	0.40-0.50
	Sampled Date	04/03/2025	04/03/2025	04/03/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	27/02/2025	27/02/2025	27/02/2025	27/02/2025	27/02/2025	27/02/2025	27/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	19/02/2025	19/02/2025
	SDG	250308-25	250308-25	250308-25	250221-60	250221-60	250221-60	250221-60	250227-57	250227-57	250227-57	250227-57	250227-57	250227-57	250227-57	250222-35	250222-35	250222-35	250222-35	250221-60	250221-60
Lab Sample Number	31183385	31183411	31183433	31109871	31109878	31109882	31109884	31135066	31135068	31135070	31135072	31135076	31114402	31114404	31114411	31114413	31109904	31109906			
Method	Units	LOD																			
Sample Description																					
Colour	PM024	No units	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	
Description	PM024	No units	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam	
Inclusion 1)	PM024	No units	Stones	Crushed Brick	Stones	Vegetation	Stones	Crushed Brick	Stones	Vegetation	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Stones	Vegetation	
Inclusion 2)	PM024	No units	Vegetation	Stones	Vegetation	Stones	Brick Concrete/Aggregate	Crushed Brick	Crushed Brick	None	Vegetation	Stones	Stones	None	Glass	Vegetation	None	None	Vegetation	None	
Moisture Content Ratio (% of as received sample)	PM024	%	21	24	23	31	17	17	16	29	22	22	20	18	25	22	17	20	20	21	
Carbon																					
Soil Organic Matter (SOM)	TM132	%	<0.35	5.67	5.6	4.69	5.84	2.09	2.38	3.05	6.41	3.97	2.95	2.98	1.83	4.59	2.59	2.28	1.54	4.53	
Inorganics																					
pH	TM133	pH Units	<1	8.03	8.28	8.07	7.11	8.43	8.49	8.41	6.02	7.09	7.4	6.06	6.99	5.29	6.57	6.31	6.92	7.01	
Miscellaneous Organics																					
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	5	3.19	4.86	1.53	4.9	1.37	1.66	3.87	3.95	3.71	5.53	7.48	<0.5	1.52	1.26	1.32	3.1	3.04
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	2.94	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&												

Land at Thornton-Cleveleys Phase 2 Soils Data for Residential Properties

Appendix J - Tables

Test	Customer Sample ID			GR01-SP210A	GR01-SP210A	GR01-SP210A	GR01-SP211	GR01-SP211	GR01-SP211A	GR01-SP211A	GR01-SP212	GR01-SP212A	GR01-SP212A	GR01-SP213	GR01-SP213	GR01-SP213A	GR01-SP213A	GR01-SP213A	GR01-SP214	GR01-SP214	GR01-SP214A	
	Depth	0.00-0.10	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.10-0.20	0.50-0.60	0.30-0.40	0.10-0.20	0.50-0.60	0.00-0.10	0.20-0.30	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.10-0.20
	Sampled Date	19/02/2025	19/02/2025	19/02/2025	19/02/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	27/02/2025	27/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025	27/02/2025	27/02/2025	27/02/2025	
	SDG	250221-60	250221-60	250221-60	250308-39	250308-39	250308-39	250308-39	250227-57	250227-57	250227-57	250219-55	250219-55	250219-55	250219-55	250219-55	250227-57	250227-57	250227-57	250227-57	250227-57	
	Lab Sample Number	31109909	31109912	31109917	31183822	31183825	31183830	31183790	31135130	31135011	31135017	31095986	31095988	31095892	31095894	31095896	31135078	31135080	31135087			
Method	Units	LOD																				
Sample Description																						
Colour	PM024	No units	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	
Description	PM024	No units	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silt Loam	Silt Loam	Sandy Clay Loam	Sandy Silt Loam	Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	
Inclusion 1)	PM024	No units	Vegetation	Vegetation	Vegetation	Stones	Stones	Vegetation	Stones	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Vegetation	Vegetation	Vegetation	
Inclusion 2)	PM024	No units	None	None	None	Vegetation	Brick	Brick	Brick	Vegetation	None	None	None	None	None	None	None	None	None	None	None	
Moisture Content Ratio (% of as received sample)	PM024	%	29	23	18	19	12	14	14	25	26	19	34	22	31	18	21	36	25	40		
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	5.17	4.22	0.865	5.98	3.29	3.9	2.17	2.91	4.21	1.2	4.47	2.17	3.81	1.4	2.4	4.19	2.33	5.38	
Inorganics																						
pH	TM133	pH Units	<1	5.9	6.24	6.61	7.91	8.71	8.41	8.47	6.44	7.37	7.58	5.9	6.53	6.17	6.64	6.63	5.74	5.91	5.93	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3,3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PfPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.644	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PfHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	0.949	1.78	0.872	0.974	1.43	0.993	1.51	4.73	5.63	2.58	2.04	3.75	1.73	1.75	2.12	4.27	4.26	2.91	
PfHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PfNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfEchHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.725	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	0.807	<0.6	<0.6	<0.6	<0.6	1.6	<0.6	1	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EiFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PfUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.722	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PfDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PfTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PfUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0																

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

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Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

				Customer Sample ID	GR01-SP220	GR01-SP220A	GR01-SP220A	GR01-SP220A	GR01-SP221	GR01-SP221A	GR01-SP221A	GR01-SP221A	GR01-SP222	GR01-SP222A	GR01-SP222A	GR01-SP223	GR01-SP223A	GR01-SP223A	GR01-SP223A	GR01-SP223A		
				Depth	0.40-0.50	0.10-0.20	0.20-0.30	0.50-0.60	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.40-0.50	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.40-0.50	0.10-0.20	0.30-0.40
Thornton				Sampled Date	25/02/2025	25/02/2025	25/02/2025	25/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	04/03/2025	04/03/2025	04/03/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025	17/02/2025	
				SDG	250226-56	250226-56	250226-56	250226-56	250222-35	250222-35	250222-35	250222-35	250222-35	250305-94	250305-94	250305-94	250305-94	250219-55	250219-55	250219-55	250219-55	250219-55
				Lab Sample Number	31129121	31129123	31129126	31129128	31114387	31114393	31114396	31114398	31114400	31166637	31166642	31166646	31166648	31095912	31095917	31095919	31095921	31095923
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Silty Clay Loam	Sandy Loam	Sandy Silt Loam	Sandy Silt Loam	Sandy Loam	Silty Clay Loam	Clay Loam	Silty Clay Loam	Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam
Inclusion 1)	PM024	No units		Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	Stones	Stones	Stones	Crushed Brick	None	Stones	Stones	Vegetation	Vegetation	Vegetation	Stones
Inclusion 2)	PM024	No units		Vegetation	Stones	Stones	None	None	None	Vegetation	None	None	Vegetation	Vegetation	Vegetation	None	Vegetation	Vegetation	None	None	None	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		19	19	22	18	18	22	15	18	21	30	18	20	17	26	15	16	27	18	
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	3.33	2.81	5.03	1.17	2.29	4.9	3.5	3.29	4.45	5.15	1.23	2.48	1.12	7.78	1.26	1.14	5.17	2.36	
Inorganics																						
pH	TM133	pH Units	<1	7.08	6.57	6.75	7.03	8.24	7.91	8.12	8.28	8.06	6.6	7.34	7.52	7.74	7.38	8.74	8.52	7.39	8.35	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.688	1.63	1.36	0.903	1.47	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	4.23	1.47	2.1	1.95	1.15	41.7	2.25	2.88	12.8	1.86	2.48	11.4	5.95	1.96	5.36	24.4	2.25	11.1	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.897	<0.5	<0.5	0.754	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	0.816	0.876	<0.6	<0.6	1.07	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDS (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0																

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

Test	Customer Sample ID			GR01-SP223A	GR01-SP224	GR01-SP224	GR01-SP224A	GR01-SP224A	GR01-SP225	GR01-SP225	GR01-SP225A	GR01-SP225A	GR01-SP225A	GR01-SP226	GR01-SP226	GR01-SP226	GR01-SP226A	GR01-SP226A	GR01-SP227	GR01-SP227
	Depth	0.50-0.60	0.00-0.10	0.40-0.50	0.00-0.10	0.20-0.30	0.50-0.60	0.00-0.10	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.50-0.60	0.00-0.10	0.20-0.30	
	Sampled Date	17/02/2025	28/02/2025	28/02/2025	28/02/2025	28/02/2025	28/02/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	21/02/2025	
	SDG	250219-55	250303-14	250303-14	250303-14	250303-14	250303-14	250308-25	250308-25	250308-25	250308-25	250308-25	250221-60	250221-60	250221-60	250221-60	250221-60	250222-35	250222-35	
Lab Sample Number	31095925	31151880	31151929	31151959	31151961	31151964	31183431	31183437	31183444	31183446	31183448	31109983	31109986	31109990	31109851	31109856	31114365	31114367		
Method	Units	LOD																		
Sample Description																				
Colour	PM024	No units	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Light Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	
Description	PM024	No units	Sandy Clay Loam	Sandy Loam	Clay	Sandy Silt Loam	Sandy Clay	Sandy Clay Loam	Silty Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay	Sandy Clay Loam	Clay	Sandy Loam	
Inclusion 1)	PM024	No units	Stones	Stones	Vegetation	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Stones	
Inclusion 2)	PM024	No units	Concrete/Aggregate	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	None	None	None	None	Stones	
Moisture Content Ratio (% of as received sample)	PM024	%	13	21	18	22	19	22	32	17	19	16	16	30	24	16	27	19	25	
Carbon																				
Soil Organic Matter (SOM)	TM132	%	<0.35	1.32	4.59	1.1	4.24	1.38	1.79	4.88	1.07	2.55	1.01	0.984	4.86	3.81	1.07	4.97	1.62	
Inorganics																				
pH	TM133	pH Units	<1	8.4	8.08	7.79	8.28	8.63	8.38	6.82	8.15	8.14	8.59	8.48	6.52	7.89	7.82	6.35	7.21	
Miscellaneous Organics																				
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	5.13	1.22	1.92	1.23	<0.5	1.11	1.39	1.75	2.25	1.13	2.55	2.01	7.04	4.53	5.44	5.99	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	1.23	<0.6	0.897	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.04	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
PFHxDa (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0										

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

[illegible]

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

				Customer Sample ID	GR01-SP232	GR01-SP232A	GR01-SP232A	GR01-SP233	GR01-SP233	GR01-SP233A	GR01-SP233A	GR01-SP234	GR01-SP234A	GR01-SP234A	GR01-SP235	GR01-SP235A	GR01-SP235A	GR01-SP236	GR01-SP236			
				Depth	0.40-0.50	0.10-0.20	0.20-0.30	0.00-0.10	0.20-0.30	0.30-0.40	0.10-0.20	0.20-0.30	0.30-0.40	0.10-0.20	0.20-0.30	0.50-0.60	0.00-0.10	0.20-0.30	0.10-0.20	0.30-0.40	0.00-0.10	0.30-0.40
Thornton				Sampled Date	21/02/2025	21/02/2025	21/02/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	20/02/2025	20/02/2025	19/02/2025	19/02/2025	03/03/2025	03/03/2025
				SDG	250222-35	250222-35	250222-35	250308-25	250308-25	250308-25	250308-25	250308-25	250305-94	250305-94	250305-94	250305-94	250221-60	250221-60	250221-60	250221-60	250305-94	250305-94
				Lab Sample Number	31114441	31114443	31114445	31183354	31183356	31183358	31183362	31183364	31166612	31166616	31166619	31166621	31109860	31109862	31109866	31109868	31166588	31166610
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	
Description	PM024	No units		Sandy Loam	Sandy Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Loamy Sand	Sandy Loam	Sandy Silt Loam	Sandy Loam	Sandy Clay Loam	Silt Loam	Sandy Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Sandy Silt Loam	
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Crushed Brick	Stones	Crushed Brick	Stones	Stones	Vegetation	Vegetation	Stones	Plastic	Crushed Brick	
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	Stones	Stones	Vegetation	Vegetation	Vegetation	
Moisture Content Ratio (% of as received sample)	PM024	%		21	17	18	29	25	22	34	28	13	24	17	14	25	15	23	22	26	17	
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	4.17	2.88	2.88	11.3	6	3.1	13.2	8.19	1.69	3.9	2.26	0.817	5.86	2.14	6.84	7.5	6.76	1.42	
Inorganics																						
pH	TM133	pH Units	<1	7.65	8.4	8.08	7.39	7.48	7.55	7.52	7.49	8.46	8.12	7.71	8.24	6.88	8.14	7.26	7.23	8.11	8.48	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.931	0.931	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PfMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
PFFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.724	<0.5	1.57	1.64	<0.5	<0.5	<0.5	<0.5	0.736	<0.5	1.11	1.56	<0.5	<0.5	
PfMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	3.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpA (375-85-9)	TM440	ug/kg	<0.5	0.697	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
PFOA (335-67-1)	TM440	ug/kg	<0.5	144	2.58	2.27	0.732	1.36	1.5	1.13	0.996	0.882	0.969	1.13	1.12	1.82	2.06	3.71	5.94	3.66	2.73	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFeCHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.893	1.06	<0.5	<0.5	
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	0.898	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.812	<0.6	0.87	<0.6	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.778	0.91	0.658	0.889	<0.5	<0.5	
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.834	0.94	<0.6	<0.6	<0.6	<0.6	
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	1.13	1.27	<0.6	<0.6	<0.6	<0.6	
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5																	

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

				Customer Sample ID	GR01-SP236	GR01-SP236A	GR01-SP236A	GR01-SP236A	GR02-SP202	GR02-SP202	GR02-SP202	GR02-SP202A	GR02-SP202A	GR02-SP204	GR02-SP204A	GR02-SP205	GR02-SP205	GR02-SP205A	GR02-SP205A	GR02-SP205A	GR02-SP206	GR02-SP206
				Depth	0.40-0.50	0.00-0.10	0.20-0.30	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.10-0.20	0.20-0.30	0.10-0.20	0.00-0.10	0.00-0.10	0.40-0.50	0.10-0.20	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40
Thornton				Sampled Date	03/03/2025	03/03/2025	03/03/2025	03/03/2025	28/02/2025	28/02/2025	28/02/2025	28/02/2025	28/02/2025	04/03/2025	04/03/2025	05/03/2025	05/03/2025	05/03/2025	05/03/2025	05/03/2025	18/02/2025	18/02/2025
				SDG	250305-94	250305-94	250305-94	250305-94	250303-14	250303-14	250303-14	250303-14	250303-14	250305-94	250305-94	250308-25	250308-25	250308-25	250308-25	250308-25	250219-55	250219-55
				Lab Sample Number	31166633	31166659	31166665	31166667	31151889	31151893	31151895	31151897	31151900	31166655	31166657	31183419	31183423	31183425	31183427	31183429	31095943	31095946
Test	Method	Units	LOD																			
Sample Description																						
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Loam	Sandy Loam	Sandy Loam	Sandy Silt Loam	Sandy Silt Loam	Silty Clay Loam	Silty Clay	Silty Clay Loam	Silty Clay Loam	Silty Clay Loam	Sandy Loam	Sandy Loam	Loamy Sand	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Silt Loam	Sandy Loam	Sandy Loam
Inclusion 1)	PM024	No units		Crushed Brick	Stones	Stones	Vegetation	Stones	Stones	Stones	Stones	Stones	Stones	Crushed Brick	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Brick
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Brick	Vegetation	Vegetation	Stones
Moisture Content Ratio (% of as received sample)	PM024	%		14	34	27	18	30	21	24	23	20	21	17	22	19	19	19	19	19	25	19
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	1.22	10.5	5.76	0.9	4.47	2.29	2.81	2.93	2.24	7.53	6.31	6.43	7.07	5.53	3.97	11.9	4.21	3.84	
Inorganics																						
pH	TM133	pH Units	<1	8.57	7.44	7.92	8.7	6.62	6.71	6.78	6.07	6.27	7.86	7.99	7.77	7.9	8.28	8.12	8.22	7.51	8.02	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.925	0.795	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	0.993	1.02	<0.5	<0.5	<0.5	2.58	2.3	1.38	<0.5	0.618	0.928	<0.5	<0.5	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	6.99	2.5	1.37	3.8	<0.5	0.859	1.36	1.64	1.73	3.24	2.66	1.45	3.44	0.74	2.9	3.35	0.926	4.96	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	34.3	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	0.907	<0.6	0.906	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	3.95	2.31	2.02	<0.6	<0.6	<0.6	1.46	0.799	<0.6	<0.6	<0.6	<0.6	<0.6	0.762	
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.															

Land at Thornton-Cleveleys

Phase 2 Soils Data for Residential Properties

Appendix J - Tables

Test	Customer Sample ID			GR02-SP206A	GR02-SP206A	GR02-SP206A	GR02-SP207A	GR02-SP207A	GR02-SP207A	GR02-SP208A	GR02-SP208A	GR02-SP207A	GR02-SP208A	GR02-SP208A	GR02-SP210A	GR02-SP210A	GR02-SP210A	GR02-SP210A	GR02-SP211A	GR02-SP211A	GR02-SP211A	
	Depth	0.00-0.10	0.20-0.30	0.50-0.60	0.00-0.10	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.50-0.60	0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.50-0.60	0.30-0.40	0.40-0.50	0.00-0.10	0.20-0.30	0.00-0.10	0.20-0.30	0.10-0.20
	Sampled Date	18/02/2025	18/02/2025	18/02/2025	18/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	05/03/2025	05/03/2025	05/03/2025	05/03/2025	05/03/2025	05/03/2025	27/02/2025	27/02/2025	27/02/2025	27/02/2025	17/02/2025	17/02/2025	17/02/2025
	SDG	250219-55	250219-55	250219-55	250221-60	250221-60	250221-60	250308-25	250308-25	250308-25	250308-25	250308-25	250308-25	250308-25	250308-25	250227-57	250227-57	250227-57	250227-57	250219-55	250219-55	250219-55
Lab Sample Number	31095954	31095956	31095958	31109886	31109896	31109898	31183383	31183387	31183389	31183395	31183399	31135036	31135038	31135040	31135043	31095889	31095915	31095977				
Method	Units	LOD																				
Sample Description																						
Colour	PM024	No units	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Light Brown	Dark Brown	Light Brown	Dark Brown	Dark Brown	Light Brown	Light Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	
Description	PM024	No units	Sandy Loam	Sandy Loam	Sandy Silt Loam	Sand	Sandy Loam	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy Silt Loam	Sandy Loam	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Silt Loam	Sandy Loam	Sandy Clay Loam		
Inclusion 1)	PM024	No units	Stones	Stones	Vegetation	Stones	Crushed Brick	Crushed Brick	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Vegetation	Stones	Vegetation		
Inclusion 2)	PM024	No units	Vegetation	Vegetation	None	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Brick	None	Vegetation	Vegetation	None	Vegetation	None		
Moisture Content Ratio (% of as received sample)	PM024	%	28	22	18	14	16	16	31	20	22	24	16	11	15	9.6	16	37	28	31		
Carbon																						
Soil Organic Matter (SOM)	TM132	%	<0.35	5.69	3.09	2.12	2.05	4.1	2.03	6.59	2.84	2.91	6.03	1.23	1.59	1.09	2.17	3.59	8.12	9.72	10.2	
Inorganics																						
pH	TM133	pH Units	<1	6.99	7.51	7.49	7.37	8.19	7.98	6.65	7.28	7.73	7.05	7.02	8.33	8.07	7.7	7.87	6.37	6.99	6.45	
Miscellaneous Organics																						
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
PFPA (2706-90-3)	TM440	ug/kg	<0.5	0.954	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
PFOA (335-67-1)	TM440	ug/kg	<0.5	1.51	2.27	1.59	<0.5	2.22	3.21	2.91	4.17	2.25	1.79	1.94	4.51	4.45	0.852	2.12	4.16	6.52	6.67	
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9		
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	1.85	1.01	<0.6	<0.6	<0.6	1.04	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.881		
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4		
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
9CI-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6		
11CI-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
PFTrDS (174675-49																						

Thornton	Customer Sample ID			GR02-SP218	GR02-SP218	GR02-SP218	GR02-SP218A	GR02-SP218A	GR02-SP219	GR02-SP219	GR02-SP219A	GR02-SP219A
	Depth			0.00-0.10	0.30-0.40	0.40-0.50	0.00-0.10	0.10-0.20	0.00-0.10	0.20-0.30	0.10-0.20	0.30-0.40
	Sampled Date			07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
	SDG			250308-39	250308-39	250308-39	250308-39	250308-39	250221-60	250221-60	250221-60	250221-60
	Lab Sample Number			31183785	31183813	31183816	31183818	31183820	31109920	31109925	31109932	31109938
Test	Method	Units	LOD									
Sample Description												
Colour	PM024	No units		Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
Description	PM024	No units		Sandy Loam	Sandy Loam	Sandy Loam	Sandy Silt Loam	Sandy Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam
Inclusion 1)	PM024	No units		Stones	Stones	Stones	Stones	Stones	Glass & Stones	Stones	Stones	Stones
Inclusion 2)	PM024	No units		Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation	None	Vegetation	Vegetation
Moisture Content Ratio (% of as received sample)	PM024	%		20	22	20	27	22	23	19	33	20
Carbon												
Soil Organic Matter (SOM)	TM132	%	<0.35	4.93	6.34	4.12	7.91	12.8	4.05	2.4	14	3.65
Inorganics												
pH	TM133	pH Units	<1	7.87	7.93	7.81	6.95	7.42	7.46	7.82	7.03	7.12
Miscellaneous Organics												
PFBA (375-22-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFMOPrA (377-73-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3:3 FTCA (356-02-5)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PFPA (2706-90-3)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	0.758	<0.5	<0.5	0.807	<0.5
PFMOBA (863090-89-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS (757124-72-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NFDHA (151772-58-6)	TM440	ug/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
PFHxA (307-24-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFBS (375-73-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HFPO-DA (13252-13-6)	TM440	ug/kg	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1
PFEESA (113507-82-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpA (375-85-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFPeS (2706-91-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ADONA (919005-14-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTS (27619-97-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5:3 FTCA (914637-49-3)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PFOA (335-67-1)	TM440	ug/kg	<0.5	2.1	4.66	4.2	2.04	4.93	1.36	2.52	1.81	1.75
PFHxS (355-46-4)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
FBSA (30334-69-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6:2 FTAB (34455-29-3)***	TM440	ug/kg	<10.0	<10	<10	<10	<10	<10	<10	<10	<10	<10
PFNA (375-95-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFecHS (133201-07-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFHpS (375-92-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
8:2 FTS (39108-34-4)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
HFPO-TA (13252-14-7)	TM440	ug/kg	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
PFDA (335-76-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.941	<0.5
MeFOSAA (2355-31-9)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Branched PFOS	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Linear PFOS (1763-23-1)	TM440	ug/kg	<0.6	<0.6	0.849	<0.6	<0.6	1.23	<0.6	<0.6	<0.6	<0.6
7:3 FTCA (812-70-4)	TM440	ug/kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
EtFOSAA (2991-50-6)	TM440	ug/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
PFUnA (2058-94-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
9Cl-PF3ONS (756426-58-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
10:2 FTS (120226-60-0)	TM440	ug/kg	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
FHxSA (41997-13-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFNS (68259-12-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoA (307-55-1)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFDS (335-77-3)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
PFTrDA (72629-94-8)	TM440	ug/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
11Cl-PF3OUdS (763051-92-9)	TM440	ug/kg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
PFUnDS (749786-16-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTeA (376-06-7)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFOSA (754-91-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFDoS (79780-39-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFTrDS (174675-49-1)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MeFOSE (24448-09-7)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5
PFHxDA (67905-19-5)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-MeFOSA (31506-32-8)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
8:2 diPAP (678-41-1)	TM440	ug/kg	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
EtFOSE (1691-99-2)	TM440	ug/kg	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5
N-EtFOSA (4151-50-2)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PFODA (16517-11-6)	TM440	ug/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PFOS	TM440	ug/kg	<0.6	<0.6	0.849	<0.6	<0.6	1.23	<0.6	<0.6	<0.6	<0.6
Total Identified PFAS	TM440	ug/kg	<51.0	<51	<51	<51	<51	<51	<51	<51	<51	<51

Quality Control Samples

Sampling Area	Unique Sampling Code	Upper Depth	Lower Depth	Type
GR03				
	GR03-SP301-A	0.2	0.3	Rinsate sample - digging tools
	GR03-SP301-E	0.4	0.5	Rinsate sample - hand trowel
	GR03-SP302-B	0	0.1	Rinsate sample - digging tools
	GR03-SP302-E-S1	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP303-C	0.2	0.3	Rinsate sample - digging tools
	GR03-SP303-E	0	0.1	Rinsate sample - hand trowel
	GR03-SP304-A-S1	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP304-C	0.5	0.6	Rinsate sample - digging tools
	GR03-SP305-A	0.4	0.5	Rinsate sample - hand trowel
	GR03-SP305-E-S1	0	0.1	Rinsate sample - digging tools
	GR03-SP307-B	0	0.6	Rinsate sample - digging tools
	GR03-SP308-C	0	0.6	Rinsate sample - digging tools
	GR03-SP308-G	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP309-A	0	0.1	Rinsate sample - digging tools
	GR03-SP309-D	0.2	0.3	Rinsate sample - hand trowel
	GR03-SP310-A	0	0.6	Rinsate sample - digging tools
	GR03-SP310-E	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP311-D	0	0.6	Rinsate sample - digging tools
	GR03-SP311-G	0	0.1	Rinsate sample - hand trowel
	GR03-SP312-C	0.1	0.2	Rinsate sample - digging tools
	GR03-SP312-E-S1	0.5	0.6	Rinsate sample - hand trowel
	GR03-SP313-C-S1	0	0.5	Rinsate sample - digging tools
	GR03-SP313-E	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP314-C	0	0.6	Rinsate sample - digging tools
	GR03-SP314-D	0	0.1	Rinsate sample - hand trowel
	GR03-SP315-B-S1	0	0.6	Rinsate sample - digging tools
	GR03-SP315-D	0	0.6	Rinsate sample - digging tools
	GR03-SP315-F	0.4	0.5	Rinsate sample - hand trowel
	GR03-SP316-B	0	0.5	Rinsate sample - digging tools
	GR03-SP316-D	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP317-B-S1	0.5	0.6	Rinsate sample - digging tools
	GR03-SP317-E	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP318-B-S1	0.4	0.5	Rinsate sample - digging tools
	GR03-SP318-D	0	0.1	Rinsate sample - hand trowel
	GR03-SP318-E	0.5	0.6	
	GR03-SP319-A	0.3	0.4	Rinsate sample - digging tools
	GR03-SP319-B	0.5	0.6	Rinsate sample - hand trowel
	GR03-SP319-E	0.4	0.5	Rinsate sample - digging tools
	GR03-SP319-G	0	0.1	Rinsate sample - hand trowel
	GR03-SP320-C	0.2	0.3	Rinsate sample - digging tools
	GR03-SP320-E	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP320-G	0.2	0.3	Rinsate sample - hand trowel
	GR03-SP321-G	0	0.1	Rinsate sample - hand trowel
	GR03-SP322-A	0	0.6	Rinsate sample - digging tools
	GR03-SP322-C	0.4	0.5	Rinsate sample - hand trowel
	GR03-SP323-B	0.2	0.3	Rinsate sample - digging tools
	GR03-SP323-D	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP324-A-S1	0	0.5	Rinsate sample - digging tools
	GR03-SP324-B	0.5	0.6	Rinsate sample - hand trowel
	GR03-SP324-D	0	0.1	Rinsate sample - digging tools
	GR03-SP325-A	0.2	0.3	Rinsate sample - hand trowel

	GR03-SP325-C	0.4	0.5	Rinsate sample - digging tools
	GR03-SP325-F	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP326-C-S1	0.5	0.6	Rinsate sample - digging tools
	GR03-SP326-G	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP327-C	0.4	0.5	Rinsate sample - digging tools
	GR03-SP328-A	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP328-E	0.1	0.2	Rinsate sample - digging tools
	GR03-SP330-A	0.2	0.3	Rinsate sample - digging tools
	GR03-SP330-F	0.4	0.5	Rinsate sample - hand trowel
	GR03-SP331-B	0.5	0.6	Rinsate sample - digging tools
	GR03-SP331-F	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP332-A	0.1	0.2	Rinsate sample - digging tools
	GR03-SP332-F	0.3	0.4	Rinsate sample - hand trowel
	GR03-SP333-C	0.4	0.5	Rinsate sample - digging tools
	GR03-SP333-E	0	0.1	Rinsate sample - hand trowel
	GR03-SP333-G	0.4	0.5	Rinsate sample - digging tools
	GR03-SP334-E	0.1	0.2	Rinsate sample - hand trowel
	GR03-SP335-B	0.2	0.3	Rinsate sample - digging tools
	GR03-SP335-E	0	0.1	Rinsate sample - hand trowel
GR04				
	GR04-SP401-B	0.4	0.5	Rinsate sample - hand trowel
	GR04-SP403-C	0.4	0.5	Rinsate sample - digging tools
	GR04-SP406-C	0.2	0.3	Rinsate sample - digging tools
	GR04-SP411-B	0	0.1	Rinsate sample - hand trowel
	GR04-SP412-B	0	0.6	Rinsate sample - digging tools
	GR04-SP413-B	0.4	0.5	Rinsate sample - hand trowel
	GR04-SP416-B	0.1	0.2	Rinsate sample - hand trowel
	GR04-SP419-A-S1	0	0.5	Rinsate sample - digging tools
	GR04-SP420-A	0.1	0.2	Rinsate sample - hand trowel
	GR04-SP421-C	0	0.5	Rinsate sample - digging tools
	GR04-SP422-C	0.3	0.4	Rinsate sample - hand trowel
	GR04-SP425-A	0	0.1	Rinsate sample - hand trowel
	GR04-SP426-A	0.1	0.2	Rinsate sample - hand trowel
	GR04-SP426-B	0	0.5	Rinsate sample - digging tools
	GR04-SP427-A	0.4	0.5	Rinsate sample - hand trowel
	GR04-SP429-A	0.5	0.6	Rinsate sample - digging tools
	GR04-SP430-A	0.4	0.5	Rinsate sample - digging tools
	GR04-SP430-B	0.5	0.6	Rinsate sample - hand trowel
	GR04-SP434-A	0.5	0.6	Rinsate sample - digging tools
	GR04-SP434-C	0.3	0.4	Rinsate sample - hand trowel
	GR04-SP435-B	0.1	0.2	Rinsate sample - hand trowel
	GR04-SP436-B	0.4	0.5	Rinsate sample - digging tools
	GR04-SP437-A	0.4	0.5	Rinsate sample - digging tools
	GR04-SP438-A	0	0.6	Rinsate sample - hand trowel
	GR04-SP438-C	0.2	0.3	Rinsate sample - digging tools
	GR04-SP439-A	0.4	0.5	Rinsate sample - hand trowel
	GR04-SP440-A	0.5	0.6	Rinsate sample - hand trowel
	GR04-SP442-A	0	0.5	Rinsate sample - digging tools
	GR04-SP442-C	0	0.1	Rinsate sample - hand trowel
POUL				
	POUL-SP504-B	0.5	0.6	Rinsate sample - hand trowel
	POUL-SP504-E	0	0.1	Rinsate sample - digging tools
	POUL-SP511-C-S1	0.1	0.2	Rinsate sample - hand trowel
	POUL-SP511-E	0.5	0.6	Rinsate sample - digging tools
	POUL-SP512-A	0.4	0.5	Rinsate sample - hand trowel
	POUL-SP513-B-S1	0	0.1	Rinsate sample - hand trowel

	POUL-SP513-E	0	0.6	Rinsate sample - digging tools
	POUL-SP513-G	0.5	0.6	Rinsate sample - hand trowel
	POUL-SP510-C	0	0.1	Rinsate sample - digging tools
	POUL-SP510-F	0.1	0.2	Rinsate sample - hand trowel
Packaging				
	PACK-1-P-Egg Bag	-	-	Rinsate sample from bag used for packaging
	PACK-2-P-Bulk Bag	-	-	Rinsate sample from plastic used to place soil arisings on
	PACK-3-P-Egg Box	-	-	Rinsate sample from egg box

				Customer Sample ID	GR03-SP301-A	GR03-SP301-E	GR03-SP302-B	GR03-SP302-E-S1	GR03-SP303-C	GR03-SP303-E	GR03-SP304-A-S1	GR03-SP304-C	GR03-SP305-A	GR03-SP305-E-S1	GR03-SP307-B	GR03-SP308-C	GR03-SP309-A	GR03-SP309-D	GR03-SP310-A
				Depth	0.20-0.30	0.40-0.50	0.00-0.50	0.10-0.20	0.00-0.50	0.00-0.10	0.10-0.20	0.50-0.60	0.40-0.50	0.00-0.50	0.00-0.60	0.00-0.60	0.00-0.10	0.00-0.60	0.00-0.60
Thornton Phase 3				Sampled Date	19/11/2025	19/11/2025	14/11/2025	14/11/2025	10/11/2025	10/11/2025	24/10/2025	24/10/2025	03/11/2025	03/11/2025	31/10/2025	07/11/2025	20/11/2025	20/11/2025	11/11/2025
				SDG	251121-24	251121-24	251119-14	251119-14	251112-63	251112-63	251028-21	251028-21	251107-27	251107-27	251103-17	251110-25	251122-25	251122-25	251114-62
				Lab Sample Number	32490021	32489997	32475451	32475428	32444424	32444442	32356277	32356261	32412933	32412895	32389682	32430645	32498051	32498123	32455904
Test	Method	Units	LOD																
Miscellaneous Organics																			
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.006	<0.015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.0015	<0.001	<0.001	<0.001	<0.001	0.00163	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.0015	<0.0015	<0.001
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.0013	<0.00325	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.0013	<0.00325	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
Branched PFOS	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.0013	<0.00325	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFNS (68259-12-1)	TM434																		

				Customer Sample ID	GR03-SP310-E	GR03-SP311-A	GR03-SP311-D	GR03-SP312-C	GR03-SP312-E-S1	GR03-SP313-C-S1	GR03-SP313-E	GR03-SP314-C	GR03-SP314-D	GR03-SP315-B-S1	GR03-SP315-D	GR03-SP315-F	GR03-SP316-B	GR03-SP316-D	GR03-SP317-B-S1	
				Depth	0.30-0.40	0.40-0.50	0.00-0.60	0.00-0.60	0.50-0.60	0.00-0.50	0.10-0.20	0.00-0.60	0.00-0.10	0.00-0.60	0.00-0.60	0.40-0.50	0.00-0.50	0.30-0.40	0.00-0.60	
Thornton Phase 3					Sampled Date	11/11/2025	30/10/2025	30/10/2025	20/11/2025	20/11/2025	30/10/2025	30/10/2025	12/11/2025	12/11/2025	11/11/2025	11/11/2025	11/11/2025	07/11/2025	07/11/2025	10/11/2025
					SDG	251114-62	251101-67	251101-67	251122-25	251122-25	251101-67	251101-67	251115-40	251115-40	251114-62	251114-62	251114-62	251110-25	251110-25	251112-63
					Lab Sample Number	32455848	32386451	32386399	32498091	32497993	32386441	32386474	32460905	32460918	32455824	32455798	32455889	32430600	32430626	32444490
Test	Method	Units	LOD																	
Miscellaneous Organics																				
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.0015	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.0013	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.00503	<0.00065	<0.00065	
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.0013	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	
Branched PFOS	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.0013	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001								

				Customer Sample ID	GR03-SP317-E	GR03-SP318-B-S1	GR03-SP318-D	GR03-SP318-E	GR03-SP319-A	GR03-SP319-B	GR03-SP319-E	GR03-SP319-G	GR03-SP320-C	GR03-SP320-E	GR03-SP320-G	GR03-SP321-G	GR03-SP322-A	GR03-SP322-C	GR03-SP323-B
				Depth	0.30-0.40	0.00-0.50	0.00-0.10	0.50-0.60	0.00-0.50	0.50-0.60	0.00-0.60	0.00-0.10	0.20-0.30	0.30-0.40	0.20-0.30	0.00-0.10	0.00-0.60	0.40-0.50	0.00-0.50
Thornton Phase 3				Sampled Date	10/11/2025	18/11/2025	18/11/2025	18/11/2025	13/11/2025	13/11/2025	13/11/2025	13/11/2025	17/11/2025	17/11/2025	17/11/2025	23/10/2025	20/10/2025	20/10/2025	27/10/2025
				SDG	251112-63	251122-24	251122-24	251122-24	251115-42	251115-42	251115-42	251115-42	251119-15	251119-15	251119-15	251028-34	251024-27	251024-27	251029-28
				Lab Sample Number	32444521	32497999	32497887	32497916	32461152	32461018	32461061	32461045	32475640	32475571	32475594	32358430	32340680	32340695	32361354
Test	Method	Units	LOD																
Miscellaneous Organics																			
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	<0.0013	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	<0.00065	<0.0013	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.000867	<0.00065	<0.00065	<0.00065	<0.00065
Branched PFOS	TM434	ug/l	<0.65	<0.00065	<0.0013	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.00082	<0.00065	<0.00065	<0.00065	<0.00065
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.					

				Customer Sample ID	GR03-SP323-D	GR03-SP324-A-S1	GR03-SP324-B	GR03-SP324-D	GR03-SP325-A	GR03-SP325-C	GR03-SP326-C-S1	GR03-SP326-G	GR03-SP328-A	GR03-SP328-E	GR03-SP330-A	GR03-SP330-F	GR03-SP331-B-S	GR03-SP331-F	GR03-SP332-A
				Depth	0.30-0.40	0.00-0.50	0.50-0.60	0.00-0.50	0.20-0.30	0.00-0.50	0.50-0.60	0.30-0.40	0.10-0.20	0.10-0.20	0.00-0.60	0.40-0.50	0.10-0.60	0.10-0.20	0.10-0.20
Thornton Phase 3				Sampled Date	27/10/2025	31/10/2025	31/10/2025	31/10/2025	27/10/2025	27/10/2025	24/10/2025	24/10/2025	21/10/2025	21/10/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025	22/10/2025
				SDG	251029-28	251103-17	251103-17	251103-17	251029-28	251029-28	251028-21	251028-21	251023-65	251023-65	251107-42	251107-42	251110-24	251107-42	251024-36
				Lab Sample Number	32361265	32389621	32389650	32389664	32361293	32361306	32356326	32356362	32337610	32337604	32414925	32414964	32430497	32415032	32341305
Test	Method	Units	LOD																
Miscellaneous Organics																			
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00329	0.00442	<0.001	<0.001	<0.001	<0.001	<0.001
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00311	0.00825	<0.001	<0.001	<0.001	<0.001	<0.001
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00162	<0.001	<0.001	<0.001	<0.001	<0.001
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.000921	0.00226	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
Branched PFOS	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00						

				Customer Sample ID	GR03-SP332-F	GR03-SP333-C	GR03-SP333-E	GR03-SP333-G	GR03-SP334-E	GR03-SP335-B	GR03-SP335-E	GR04-SP401-B	GR04-SP403-C	GR04-SP406-C	GR04-SP411-B	GR04-SP412-B	GR04-SP413-B	GR04-SP416-B	GR04-SP419-A-S1	
				Depth	0.30-0.40	0.00-0.50	0.00-0.10	0.00-0.50	0.10-0.20	0.00-0.60	0.00-0.10	0.40-0.50	0.00-0.50	0.00-0.50	0.00-0.10	0.00-0.60	0.40-0.50	0.10-0.20	0.00-0.50	
Thornton Phase 3					Sampled Date	22/10/2025	23/10/2025	23/10/2025	23/10/2025	10/10/2025	22/10/2025	22/10/2025	16/10/2025	19/11/2025	05/11/2025	15/10/2025	29/10/2025	28/10/2025	04/11/2025	17/11/2025
					SDG	251024-36	251028-34	251028-34	251028-34	251024-26	251024-36	251024-36	251018-47	251121-24	251110-24	251018-46	251031-21	251031-20	251107-28	251119-15
					Lab Sample Number	32341314	32358462	32358483	32358501	32297651	32341344	32341377	32311414	32490045	32430506	32311324	32375759	32375643	32413047	32475663
Test	Method	Units	LOD																	
Miscellaneous Organics																				
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.05	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.03	<0.015	<0.015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.05	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	<0.0065	<0.00325	<0.00325	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.000849	<0.00065	<0.00065	<0.00065	<0.00065	
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025	<0.001	<0.001	<0.001	<0.001	
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.05	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.05	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	<0.00065	<0.0065	<0.00325	<0.00325	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.00307	<0.00065	<0.00065	<0.00065	<0.00065	
Branched PFOS	TM434	ug/l	<0.65	<0.00065	<0.0065	<0.00325	<0.00325	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.00525	<0.00065	<0.00065	<0.00065	<0.00065	
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.02	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<			

				Customer Sample ID	GR04-SP420-A	GR04-SP421-C	GR04-SP422-C	GR04-SP425-A	GR04-SP426-A	GR04-SP426-B	GR04-SP427-A	GR04-SP429-A	GR04-SP430-A	GR04-SP430-B	GR04-SP434-A	GR04-SP434-C	GR04-SP435-B	GR04-SP436-B	GR04-SP437-A
				Depth	0.10-0.20	0.00-0.50	0.30-0.40	0.00-0.10	0.10-0.20	0.00-0.50	0.50-0.60	0.00-0.60	0.00-0.50	0.30-0.40	0.00-0.60	0.30-0.40	0.10-0.20	0.00-0.50	0.00-0.50
Thornton Phase 3				Sampled Date	05/11/2025	21/10/2025	18/11/2025	14/11/2025	21/10/2025	21/10/2025	04/11/2025	05/11/2025	13/11/2025	13/11/2025	29/10/2025	29/10/2025	29/10/2025	29/10/2025	03/11/2025
				SDG	251107-41	251023-65	251122-24	251119-14	251023-65	251023-65	251107-28	251107-41	251115-42	251115-42	251031-21	251031-21	251031-21	251031-21	251107-27
				Lab Sample Number	32414847	32337647	32497942	32475470	32337657	32337669	32413010	32414869	32461094	32461070	32375691	32375706	32375721	32375746	32412912
Test	Method	Units	LOD																
Miscellaneous Organics																			
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	0.00416	<0.001	<0.001	<0.001	0.00357	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	0.00555	<0.001	<0.001	<0.001	0.00309	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	0.00144	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	0.00191	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	0.000716
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
Branched PFOS	TM434	ug/l	<0.65	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065	<0.00065
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						

Land at Thornton-Cleveleys Phase 3 Rinsate Data

Appendix J - Tables

Customer Sample ID				GR04-SP438-A	GR04-SP438-C	GR04-SP439-A	GR04-SP440-A	GR04-SP442-A	GR04-SP442-C	PACK-1	PACK-2	PACK-3	POUL-SP504-B	POUL-SP504-E	POUL-SP510-C	POUL-SP510-F	POUL-SP511-C-S1	POUL-SP511-E
Depth				0.00-0.60	0.20-0.30	0.40-0.50	0.50-0.60	0.00-0.50	0.00-0.10	0.00-0.00	0.00-0.00	0.00-0.00	0.50-0.60	0.00-0.50	0.00-0.10	0.10-0.20	0.10-0.20	0.00-0.60
Sampled Date				12/11/2025	12/11/2025	12/11/2025	17/11/2025	13/11/2025	13/11/2025	16/10/2025	16/10/2025	16/10/2025	14/10/2025	14/10/2025	13/10/2025	13/10/2025	18/11/2025	18/11/2025
SDG				251115-40	251115-40	251115-40	251119-15	251115-42	251115-42	251018-47	251018-47	251018-47	251016-37	251016-37	251016-65	251016-65	251122-24	251122-24
Lab Sample Number				32460948	32460974	32460987	32475617	32461167	32461118	32311361	32311366	32311370	32298775	32298795	32301234	32301197	32497970	32498052
Test	Method	Units	LOD															
Miscellaneous Organics																		
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.015	<0.003	<0.003	<0.003	<0.006	<0.003	<0.003	<0.003
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.00182	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001

			Customer Sample ID	POUL-SP512-A	POUL-SP513-B-S1	POUL-SP513-E	POUL-SP513-G
			Depth	0.40-0.50	0.00-0.10	0.00-0.60	0.50-0.60
Thornton Phase 3			Sampled Date	16/10/2025	17/10/2025	17/10/2025	17/10/2025
			SDG	251018-47	251018-49	251018-49	251018-49
			Lab Sample Number	32311382	32311560	32311527	32311552
Test	Method	Units	LOD				
Miscellaneous Organics							
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFMOPrA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
3:3 FTCA (356-02-5)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
4:2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFHxA (307-24-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFEESA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFHpA (375-85-9)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
5:3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
6:2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.001	0.00113	<0.001
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFOA (335-67-1)	TM434	ug/l	<0.65	<0.00065	<0.00065	0.00122	<0.00065
PFHxS (355-46-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFNA (375-95-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFHpS (375-92-8)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
8:2 FTS (39108-34-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
HFPO-TA (13252-14-7)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005
PFDA (335-76-2)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
MeFOSAA (2355-31-9)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
7:3 FTCA (812-70-4)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005
Linear PFOS (1763-23-1)	TM434	ug/l	<0.65	0.00115	<0.00065	0.00126	<0.00065
Branched PFOS	TM434	ug/l	<0.65	0.00108	<0.00065	0.00194	<0.00065
EtFOSAA (2991-50-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFUnA (2058-94-8)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
9Cl-PF3ONS (756426-58-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFNS (68259-12-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
FHxSA (41997-13-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFDoA (307-55-1)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFDS (335-77-3)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFTTrDA (72629-94-8)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003
11Cl-PF3OUdS (763051-92-9)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFUnDS (749786-16-1)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFTeA (376-06-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFOSA (754-91-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFDoS (79780-39-5)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002
PFHxDA (67905-19-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
MeFOSE (24448-09-7)	TM434	ug/l	<10	<0.01	<0.01	<0.01	<0.01
N-MeFOSA (31506-32-8)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
EtFOSE (1691-99-2)	TM434	ug/l	<10	<0.01	<0.01	<0.01	<0.01
PFODA (16517-11-6)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
N-EtFOSA (4151-50-2)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
6:2 FTAB (34455-29-3)	TM434	ug/l	<10	<0.01	<0.01	<0.01	<0.01
Total PFOS	TM434	ug/l	<0.65	0.00223	<0.00065	0.00321	<0.00065
Total PFAS DWI 47	TM434	ug/l	<90	<0.09	<0.09	<0.09	<0.09
PFecHS (646-83-3)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001
PFTTrDS (791563-89-8)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001

Customer Sample ID	Depth	Sampled Date	SDG	Lab Sample Number	GR01-SP201A GR01-SP203 GR01-SP206 GR01-SP206A GR01-SP210A GR01-SP211A GR01-SP213 GR01-SP222 GR01-SP223 GR01-SP225 GR01-SP226A GR01-SP227 GR01-SP229 GR02-SP202A GR02-SP204A GR02-SP207A GR02-SP208 GR02-SP211A GR02-SP214 GR02-SP214A GR02-SP217 GR02-SP219A																							
					0.50-0.60 0.20-0.30 0.30-0.40 0.50-0.60 0.20-0.30 0.10-0.20 0.20-0.30 0.40-0.50 0.00-0.10 0.50-0.60 0.10-0.20 0.40-0.50 0.20-0.30 0.00-0.10 0.30-0.40 0.30-0.40 0.10-0.20 0.40-0.50 0.50-0.60 0.40-0.50 0.30-0.40																							
					21/02/2025 20/02/2025 04/03/2025 04/03/2025 20/02/2025 07/03/2025 18/02/2025 04/03/2025 18/02/2025 06/03/2025 20/02/2025 21/02/2025 28/02/2025 28/02/2025 04/03/2025 20/02/2025 05/03/2025 18/02/2025 04/03/2025 04/03/2025 25/03/2025 25/03/2025 25/03/2025 25/03/2025 25/03/2025 25/03/2025 25/03/2025																							
Test	Method	Units	LOO	31114428	31109974	31183487	31183491	31109966	31183792	31095966	31166651	31095972	31183439	31109954	31114434	31151955	31151947	31151955	31151947	31166661	31109962	31183391	31095960	31183345	31183350	31109950	31109970	
Miscellaneous Organics																												
PFBA (375-22-4)	TM434	mg/l	<2	-	-	-	-	-	-	-	<0.00001	-	<0.000002	-	-	-	-	-	-	<0.000002	-	-	-	-	-	-	-	
PFBA (375-22-4)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFMOPHA (377-73-1)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.00005	-	<0.000001	-	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.00001	-	-	-	-	-	-	-	
PFMOPHA (377-73-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
3,3 FTCA (356-62-5)	TM434	mg/l	<2	-	-	-	-	-	-	-	<0.00001	-	<0.000002	-	<0.00002	<0.001	<0.001	<0.001	<0.001	<0.00002	-	-	-	-	-	-	-	
3,3 FTCA (356-62-5)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFPA (2706-90-3)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.00005	-	<0.000001	-	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.00001	-	-	-	-	-	-	-	
PFPA (2706-90-3)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFMOBA (863090-89-5)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.00005	-	<0.000001	-	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.00001	-	-	-	-	-	-	-	
PFMOBA (863090-89-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4,2 FTS (757124-72-4)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.00005	-	<0.000001	-	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.00001	-	-	-	-	-	-	-	
4,2 FTS (757124-72-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
NFDHA (151772-58-6)	TM434	mg/l	<3	-	-	-	-	-	-	-	<0.000015	-	<0.000003	-	<0.00003	<0.003	<0.003	<0.003	<0.003	<0.000003	-	-	-	-	-	-	-	
NFDHA (151772-58-6)	TM434	ug/l	<3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
PFBS (375-73-5)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
PFBS (375-73-5)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHA (307-24-4)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
PFHA (307-24-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
HFPO-DA (13252-13-6)	TM434	mg/l	<2	-	-	-	-	-	-	-	<0.00001	-	<0.000002	-	<0.00002	<0.002	<0.002	<0.002	<0.002	<0.000002	-	-	-	-	-	-	-	
HFPO-DA (13252-13-6)	TM434	ug/l	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFEEA (113507-82-7)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
PFEEA (113507-82-7)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFHqA (375-85-9)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
PFHqA (375-85-9)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
PFPeS (2706-91-4)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
PFPeS (2706-91-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
5,3 FTCA (914637-49-3)	TM434	mg/l	<5	-	-	-	-	-	-	-	<0.000025	-	<0.000005	-	<0.000005	<0.005	<0.005	<0.005	<0.005	<0.000005	-	-	-	-	-	-	-	
5,3 FTCA (914637-49-3)	TM434	ug/l	<5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
ADONA (919005-14-4)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
ADONA (919005-14-4)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
6,2 FTS (27619-97-2)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
6,2 FTS (27619-97-2)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
FBSA (30334-69-1)	TM434	mg/l	<1	-	-	-	-	-	-	-	<0.000005	-	<0.000001	-	<0.000001	<0.001	<0.001	<0.001	<0.001	<0.000001	-	-	-	-	-	-	-	
FBSA (30334-69-1)	TM434	ug/l	<1	<0.001	<0.001	<0.001	<0.001	<0.																				

Locations	Depth (m bgl)	Perfluoro-n-octanoic acid (PFOA) (335-67-1)		Sum of PFOA (branched isomers)	Total PFOA	%branched	%linear	RPD%
		ALS	Merieux Labs	Merieux Labs	Merieux Labs	Merieux Labs	Merieux Labs	
GR03-SP301-A	0-0.1	5.97	6	0.119	6.12	1.94	98.06	1%
GR03-SP301-D	0.2-0.3	3.93	6.8	0.161	6.96	2.31	97.69	53%
GR03-SP301-G	0-0.1	3.47	4	0.098	4.1	2.39	97.61	14%
GR03-SP302-C	0.5-0.6	2.83	4.4	0.089	4.49	1.98	98.02	43%
GR03-SP303-A	0.4-0.5	3.93	4	0.063	4.06	1.55	98.45	2%
GR03-SP303-F	0.2-0.3	2.62	3.3	0.043	3.34	1.29	98.71	23%
GR03-SP304-B	0-0.1	1.59	2.63	0.068	2.7	2.52	97.48	49%
GR03-SP304-D	0.2-0.3	1.28	2.22	0.082	2.3	3.56	96.44	54%
GR03-SP304-G	0.2-0.3	1.81	1.94	0.055	2	2.76	97.24	7%
GR03-SP305-C	0-0.1	5.38	3.1	0.072	3.17	2.27	97.73	54%
GR03-SP306-B	0-0.1	2.78	2.69	0.047	2.74	1.72	98.28	3%
GR03-SP306-E	0.5-0.6	8.14	5.5	0.095	5.6	1.7	98.3	39%
GR03-SP307-C	0.4-0.5	3.39	5	0.132	5.13	2.57	97.43	38%
GR03-SP307-F	0.2-0.3	1.77	4.4	0.123	4.52	2.72	97.28	85%
GR03-SP308-A	0.3-0.4	4.24	4.6	0.112	4.71	2.38	97.62	8%
GR03-SP308-E	0.1-0.2	3.48	3	0.06	3.06	1.96	98.04	15%
GR03-SP309-A	0.2-0.3	2.61	1.13	0.029	1.16	2.5	97.5	79%
GR03-SP309-F	0.1-0.2	1.47	1.64	0.043	1.68	2.55	97.45	11%
GR03-SP310-A	0.5-0.6	38.2	24.8	1.01	25.81	3.91	96.09	43%
GR03-SP310-C	0.3-0.4	18.8	6.6	0.21	6.81	3.08	96.92	96%
GR03-SP311-A	0.3-0.4	1.21	1.11	0.029	1.14	2.55	97.45	9%
GR03-SP311-E	0.4-0.5	6.69	5.7	0.071	5.77	1.23	98.77	16%
GR03-SP312-B	0.4-0.5	23.7	14.7	0.164	14.86	1.1	98.9	47%
GR03-SP312-D	0-0.1	4.98	5.2	0.068	5.27	1.29	98.71	4%
GR03-SP313-B	0.1-0.2	5.94	3.9	0.064	3.96	1.61	98.39	41%
GR03-SP313-E	0.5-0.6	19.9	12.3	0.286	12.59	2.27	97.73	47%
GR03-SP314-C	0.1-0.2	5.18	4.8	0.055	4.86	1.13	98.87	8%
GR03-SP314-E	0.2-0.3	3.41	2.22	0.035	2.26	1.55	98.45	42%
GR03-SP315-C	0-0.1	3.93	14.2	0.35	14.55	2.41	97.59	113%
GR03-SP315-E	0.4-0.5	4.45	4.5	0.103	4.6	2.24	97.76	1%
GR03-SP316-A	0.1-0.2	4.61	4.3	0.076	4.38	1.74	98.26	7%
GR03-SP316-D	0.1-0.2	1.48	1.48	0.047	1.53	3.08	96.92	0%
GR03-SP316-E	0.2-0.3	8.98	5.1	0.069	5.17	1.33	98.67	55%
GR03-SP317-A	0.2-0.3	5.94	5.9	0.049	5.95	0.82	99.18	1%
GR03-SP317-D	0-0.1	5.99	6.8	0.141	6.94	2.03	97.97	13%
GR03-SP318-A	0.1-0.2	2.64	4.5	0.067	4.57	1.47	98.53	52%
GR03-SP318-E	0.5-0.6	3.15	3.3	0.046	3.35	1.37	98.63	5%
GR03-SP319-B	0.1-0.2	3.37	4.6	0.109	4.71	2.31	97.69	31%
GR03-SP319-F	0.2-0.3	1.32	2.54	0.04	2.58	1.55	98.45	63%
GR03-SP320-B	0.3-0.4	15.9	15.3	0.104	15.4	0.68	99.32	4%
GR03-SP320-E	0.1-0.2	9.54	7.2	0.092	7.29	1.26	98.74	28%
GR03-SP321-A	0.2-0.3	3.58	4.4	0.05	4.45	1.12	98.88	21%
GR03-SP321-D	0.5-0.6	5.23	3.3	0.035	3.34	1.05	98.95	45%
GR03-SP322-C	0-0.1	3.06	4.3	0.048	4.35	1.1	98.9	34%
GR03-SP323-A	0-0.1	1.91	1.83	0.058	1.89	3.07	96.93	4%
GR03-SP323-C	0.3-0.4	4.16	4.2	0.084	4.28	1.96	98.04	1%
GR03-SP323-D	0.3-0.4	3.99	5	0.041	5.04	0.81	99.19	22%
GR03-SP324-B	0.1-0.2	1.91	3.1	0.029	3.13	0.93	99.07	48%
GR03-SP324-C	0.4-0.5	1.81	4.5	0.072	4.57	1.57	98.43	85%
GR03-SP324-E	0.2-0.3	2.48	4	0.056	4.06	1.38	98.62	47%
GR03-SP325-B	0.5-0.6	20.9	14	0.43	14.43	2.98	97.02	40%
GR03-SP325-E	0-0.1	6.35	4.2	0.054	4.25	1.27	98.73	41%
GR03-SP325-F	0.1-0.2	3.53	4.3	0.042	4.34	0.97	99.03	20%
GR03-SP326-A	0.5-0.6	2.8	3.6	0.044	3.64	1.21	98.79	25%
GR03-SP326-E	0.5-0.6	2.62	3	0.055	3.06	1.8	98.2	14%
GR03-SP326-F	0.2-0.3	3.04	4.1	0.051	4.15	1.23	98.77	30%
GR03-SP327-C	0.2-0.3	1.24	1.52	0.016	1.54	1.04	98.96	20%
GR03-SP327-E	0.3-0.4	0.736	0.58	0.018	0.6	3.01	96.99	24%
GR03-SP328-B	0-0.1	4.36	3.8	0.036	3.84	0.94	99.06	14%
GR03-SP328-C	0.5-0.6	2.75	4.2	0.059	4.26	1.39	98.61	42%
GR03-SP328-F	0-0.1	3.73	5.5	0.112	5.61	2	98	38%
GR03-SP330-D	0-0.1	3.82	3.8	0.027	3.83	0.71	99.29	1%
GR03-SP330-G	0.5-0.6	4.56	4.4	0.046	4.45	1.03	98.97	4%
GR03-SP331-C	0.2-0.3	5.61	4.5	0.065	4.57	1.42	98.58	22%
GR03-SP331-F	0.2-0.3	4.33	4	0.068	4.07	1.67	98.33	8%
GR03-SP332-A	0.1-0.2	0.945	5.2	0.074	5.27	1.4	98.6	138%
GR03-SP332-D	0.4-0.5	3.41	4.4	0.042	4.44	0.95	99.05	25%
GR03-SP332-G	0.5-0.6	2.14	2.9	0.058	2.96	1.96	98.04	30%
GR03-SP333-A	0.4-0.5	4.43	5.4	0.096	5.5	1.75	98.25	20%
GR03-SP333-F	0.1-0.2	4.54	4.8	0.076	4.88	1.56	98.44	6%
GR03-SP334-B	0.2-0.3	2.29	4.7	0.074	4.77	1.55	98.45	69%
GR03-SP334-G	0.1-0.2	2.78	27	0.32	27.32	1.17	98.83	163%
GR03-SP335-C	0.2-0.3	8.99	10.7	0.173	10.87	1.59	98.41	17%
GR03-SP335-G	0-0.1	1.95	3.2	0.042	3.24	1.3	98.7	49%

		Perfluoro-n-octanoic acid (PFOA) (335-67-1)		Sum of PFOA (branched isomers)	Total PFOA	%branched	%linear	RPD%
Locations	Depth (m bgl)	ALS	Merieux Labs	Merieux Labs	Merieux Labs	Merieux Labs	Merieux Labs	
GR04-SP401-B	0.4-0.5	1.42	1.58	0.024	1.6	1.5	98.5	11%
GR04-SP403-B	0.3-0.4	7.28	4.7	0.042	4.74	0.89	99.11	43%
GR04-SP406-A	0.4-0.5	2.25	2.9	0.026	2.93	0.89	99.11	25%
GR04-SP408-A	0.4-0.5	4.33	2.71	0.089	2.8	3.18	96.82	46%
GR04-SP409-B	0.2-0.3	3.66	4.2	0.045	4.25	1.06	98.94	14%
GR04-SP410-A	0.3-0.4	4.99	3.3	0.047	3.35	1.4	98.6	41%
GR04-SP411-B	0.4-0.5	9.61	21.2	0.38	21.58	1.76	98.24	75%
GR04-SP412-C	0.3-0.4	4.51	4.2	0.064	4.26	1.5	98.5	7%
GR04-SP413-C	0.5-0.6	2.83	4.1	0.065	4.17	1.56	98.44	37%
GR04-SP416-A	0.4-0.5	5.05	8.2	0.092	8.29	1.11	98.89	48%
GR04-SP417	0.4-0.5	1.22	2.88	0.045	2.93	1.54	98.46	81%
GR04-SP419-E	0.4-0.5	16.7	13.6	0.32	13.92	2.3	97.7	20%
GR04-SP420-A	0.3-0.4	4.74	5.5	0.052	5.55	0.94	99.06	15%
GR04-SP421-B	0.5-0.6	0.926	0.91	0.02	0.93	2.15	97.85	2%
GR04-SP422-C	0.5-0.6	1.73	2.2	0.058	2.26	2.57	97.43	24%
GR04-SP423-A	0-0.1	2.52	2.06	0.053	2.11	2.51	97.49	20%
GR04-SP425-C	0-0.1	2.29	3.7	0.042	3.74	1.12	98.88	47%
GR04-SP426-B	0.4-0.5	1.76	2.02	0.018	2.04	0.88	99.12	14%
GR04-SP427-C	0.4-0.5	0.738	0.76	0.01	0.77	1.3	98.7	3%
GR04-SP429-B	0.3-0.4	1.33	3.2	0.028	3.23	0.87	99.13	83%
GR04-SP430-B	0.3-0.4	3.07	3.4	0.058	3.46	1.68	98.32	10%
GR04-SP434-C	0.3-0.4	2.34	1.87	0.027	1.9	1.42	98.58	22%
GR04-SP435-A	0.4-0.5	3.73	5.3	0.111	5.41	2.05	97.95	35%
GR04-SP436-A	0.5-0.6	1.15	1.89	0.023	1.91	1.2	98.8	49%
GR04-SP437-B	0.2-0.3	1.36	1.56	0.023	1.58	1.45	98.55	14%
GR04-SP438-A	0.1-0.2	3.81	2.91	0.032	2.94	1.09	98.91	27%
GR04-SP439-C	0-0.1	5.45	5.4	0.022	5.42	0.41	99.59	1%
GR04-SP440-B	0.2-0.3	3.3	3.3	0.031	3.33	0.93	99.07	0%
GR04-SP441-A	0.4-0.5	2.65	3.2	0.059	3.26	1.81	98.19	19%
GR04-SP442-B	0.5-0.6	2.35	3.1	0.03	3.13	0.96	99.04	28%
POUL-SP504-E	0.4-0.5	11.8	10.3	0.181	10.48	1.73	98.27	14%
POUL-SP504-G	0.4-0.5	4.33	3.8	0.07	3.87	1.81	98.19	13%
POUL-SP510-B	0.1-0.2	14.7	13.2	0.44	13.64	3.23	96.77	11%
POUL-SP510-C	0-0.1	6.57	7.7	0.36	8.06	4.47	95.53	16%
POUL-SP511-E	0.1-0.2	4.93	6.3	0.063	6.36	0.99	99.01	24%
POUL-SP512-C	0-0.1	3.49	5.2	0.065	5.27	1.23	98.77	39%
POUL-SP513-A	0.3-0.4	4.1	3.4	0.052	3.45	1.51	98.49	19%
POUL-SP513-D	0-0.1	2.35	3.3	0.068	3.37	2.02	97.98	34%
POUL-SP513-G	0.1-0.2	2.85	2.45	0.062	2.51	2.47	97.53	15%

PFAS Results - Detailed Phase: October 2025

Duplicate RPDs in soil samples (ug/kg)

RPD % shown in red highlights samples where the variance is greater than +/- 50% (which would be within the range expected for heterogeneous Made Ground soils)

RPD % Sampling Precision
GR03-SP324-A

[illegible]

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highlig

06/02/2026 2 of 16 Prepared by WSP on behalf of the Environment Agency

Thornton Phase :

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highliq

Sampled Date SDG	Sampled Date SDG	10/11/2025 251112-63	10/11/2025 251112-63	10/11/2025 251112-63	10/11/2025 251112-63	RPD % Analaytical Precision	GR03-SP303 B-S1 [0.50- 0.60] A1	GR03-SP303 B-S1 [0.50- 0.60] A2	RPD % Analaytical Precision	GR03-SP303 B-S1 [0.50- 0.60] A1	GR03-SP303 B-S2 [0.50- 0.60] A2	RPD % Analaytical Precision	Sampled Date SDG	11/11/2025 251114-62	11/11/2025 251114-62	11/11/2025 251114-62	11/11/2025 251114-62	RPD % Analaytical Precision	Sampled Date SDG	12/11/2025 251115-40	12/11/2025 251115-40	12/11/2025 251115-40	12/11/2025 251115-40	RPD % Analaytical Precision
Customer ID	iling Precision P411-A	Customer ID	GR03-SP303 B-S1 [0.50- 0.60] A1	GR03-SP303 B-S1 [0.50- 0.60] A2	RPD % Analaytical Precision	GR03-SP303 B-S2 [0.50- 0.60] A1	GR03-SP303 B-S2 [0.50- 0.60] A2	RPD % Analaytical Precision	Customer ID	RPD % Sampling Precision GR03-SP303-B	Customer ID	GR03-SP310 B-S1 [0.40- 0.50] A1	GR03-SP310 B-S1 [0.40- 0.50] A2	RPD % Analaytical Precision	GR03-SP310 B-S2 [0.40- 0.50] A1	GR03-SP310 B-S2 [0.40- 0.50] A2	RPD % Analaytical Precision	Customer ID	GR03-SP314 B-S1 [0.40- 0.50] A1	GR03-SP314 B-S1 [0.40- 0.50] A2	RPD % Analaytical Precision	GR03-SP314 B-S2 [0.40- 0.50] A1	GR03-SP314 B-S2 [0.40- 0.50] A2	RPD % Analaytical Precision
Sample	32311316 / 32311320	Sample	32444531	32444533	32444531 / 32444533	32444536	32444538	32444536 / 32444538	Sample	32444531 / 32444536	32444533 / 32444538	Sample	32455894 / 32455883	32455896 / 32455885	32455894 / 32455883	32455885 / 32455885	32455883 / 32455885	Sample	32461010	32461012	32461010 / 32461012	32461014	32461016	32461014 / 32461016
Soil Organic Matter (SOM)	-41	Soil Organic Matter (SOM)	1.18	1.3	-10	0.86	1.48	-53	Soil Organic Matter (SOM)	1.19	0.869	31	0.784	0.871	-11	Soil Organic Matter (SOM)	3.31	1.29	88	0.833	1.11	-29		
pH	1	pH	7.05	6.92	2	6.63	6.51	2	pH	8.47	8.49	0	8.1	8.09	0	pH	8.62	8.51	1	8.49	8.46	0		
PFBA (375-22-4)		PFBA (375-22-4)	<0.5	<0.5		<0.5	<0.5		PFBA (375-22-4)	<0.5	<0.5		<0.5	<0.5		PFBA (375-22-4)	<0.5	<0.5		<0.5	<0.5			
PFMOPrA (377-73-1)		PFMOPrA (377-73-1)	<0.5	<0.5		<0.5	<0.5		PFMOPrA (377-73-1)	<0.5	<0.5		<0.5	<0.5		PFMOPrA (377-73-1)	<0.5	<0.5		<0.5	<0.5			
3:3 FTCA (356-02-5)		3:3 FTCA (356-02-5)	<0.8	<0.8		<0.8	<0.8		3:3 FTCA (356-02-5)	<0.8	<0.8		<0.8	<0.8		3:3 FTCA (356-02-5)	<0.8	<0.8		<0.8	<0.8			
PFPA (2706-90-3)		PFPA (2706-90-3)	<0.5	<0.5		<0.5	<0.5		PFPA (2706-90-3)	<0.5	<0.5		<0.5	<0.5		PFPA (2706-90-3)	<0.5	<0.5		<0.5	<0.5			
PFMOBA (863090-89-5)		PFMOBA (863090-89-5)	<0.5	<0.5		<0.5	<0.5		PFMOBA (863090-89-5)	<0.5	<0.5		<0.5	<0.5		PFMOBA (863090-89-5)	<0.5	<0.5		<0.5	<0.5			
4:2 FTS (757124-72-4)		4:2 FTS (757124-72-4)	<0.5	<0.5		<0.5	<0.5		4:2 FTS (757124-72-4)	<0.5	<0.5		<0.5	<0.5		4:2 FTS (757124-72-4)	<0.5	<0.5		<0.5	<0.5			
NFDHA (151772-58-6)		NFDHA (151772-58-6)	<1.8	<1.8		<1.8	<1.8		NFDHA (151772-58-6)	<1.8	<1.8		<1.8	<1.8		NFDHA (151772-58-6)	<1.8	<1.8		<1.8	<1.8			
PFHxA (307-24-4)		PFHxA (307-24-4)	<0.5	<0.5		<0.5	<0.5		PFHxA (307-24-4)	<0.5	<0.5		<0.5	<0.5		PFHxA (307-24-4)	<0.5	<0.5		<0.5	<0.5			
PFBS (375-73-5)		PFBS (375-73-5)	<0.5	<0.5		<0.5	<0.5		PFBS (375-73-5)	<0.5	<0.5		<0.5	<0.5		PFBS (375-73-5)	<0.5	<0.5		<0.5	<0.5			
HFPO-DA (13252-13-6)		HFPO-DA (13252-13-6)	<1	<1		<1	<1		HFPO-DA (13252-13-6)	<1	<1		<1	<1		HFPO-DA (13252-13-6)	<1	<1		<1	<1			
PFEESA (113507-82-7)		PFEESA (113507-82-7)	<0.5	<0.5		<0.5	<0.5		PFEESA (113507-82-7)	<0.5	<0.5		<0.5	<0.5		PFEESA (113507-82-7)	<0.5	<0.5		<0.5	<0.5			
PFHpA (375-85-9)		PFHpA (375-85-9)	<0.5	<0.5		<0.5	<0.5		PFHpA (375-85-9)	<0.5	<0.5		<0.5	<0.5		PFHpA (375-85-9)	<0.5	<0.5		<0.5	<0.5			
PFPeS (2706-91-4)		PFPeS (2706-91-4)	<0.5	<0.5		<0.5	<0.5		PFPeS (2706-91-4)	<0.5	<0.5		<0.5	<0.5		PFPeS (2706-91-4)	<0.5	<0.5		<0.5	<0.5			
ADONA (919005-14-4)		ADONA (919005-14-4)	<0.5	<0.5		<0.5	<0.5		ADONA (919005-14-4)	<0.5	<0.5		<0.5	<0.5		ADONA (919005-14-4)	<0.5	<0.5		<0.5	<0.5			
6:2 FTS (27619-97-2)		6:2 FTS (27619-97-2)	<0.5	<0.5		<0.5	<0.5		6:2 FTS (27619-97-2)	<0.5	<0.5		<0.5	<0.5		6:2 FTS (27619-97-2)	<0.5	<0.5		<0.5	<0.5			
5:3 FTCA (914637-49-3)		5:3 FTCA (914637-49-3)	<2.5	<2.5		<2.5	<2.5		5:3 FTCA (914637-49-3)	<2.5	<2.5		<2.5	<2.5		5:3 FTCA (914637-49-3)	<2.5	<2.5		<2.5	<2.5			
PFOA (335-67-1)	59	PFOA (335-67-1)	3.81	5.59	-38	3.86	3.84	1	PFOA (335-67-1)	18.5	14.5	24	37	37.5	-1	PFOA (335-67-1)	1.61	0.938	53	2.12	2.13	0		
PFHxS (355-46-4)		PFHxS (355-46-4)	<0.5	<0.5		<0.5	<0.5		PFHxS (355-46-4)	<0.5	<0.5		<0.5	<0.5		PFHxS (355-46-4)	<0.5	<0.5		<0.5	<0.5			
FBSA (30334-69-1)		FBSA (30334-69-1)	<0.5	<0.5		<0.5	<0.5		FBSA (30334-69-1)	<0.5	<0.5		<0.5	<0.5		FBSA (30334-69-1)	<0.5	<0.5		<0.5	<0.5			
6:2 FTAB (34455-29-3)***		6:2 FTAB (34455-29-3)***	<10	<10		<10	<10		6:2 FTAB (34455-29-3)***	<10	<10		<10	<10		6:2 FTAB (34455-29-3)***	<10	<10		<10	<10			
PFNA (375-95-1)		PFNA (375-95-1)	<0.5	<0.5		<0.5	<0.5		PFNA (375-95-1)	<0.5	<0.5		<0.5	<0.5		PFNA (375-95-1)	<0.5	<0.5		<0.5	<0.5			
PFecHS (133201-07-7)		PFecHS (133201-07-7)	<0.5	<0.5		<0.5	<0.5		PFecHS (133201-07-7)	<0.5	<0.5		<0.5	<0.5		PFecHS (133201-07-7)	<0.5	<0.5		<0.5	<0.5			
PFHpS (375-92-8)		PFHpS (375-92-8)	<0.6	<0.6		<0.6	<0.6		PFHpS (375-92-8)	<0.6	<0.6		<0.6	<0.6		PFHpS (375-92-8)	<0.6	<0.6		<0.6	<0.6			
8:2 FTS (39108-34-4)		8:2 FTS (39108-34-4)	<0.9	<0.9		<0.9	<0.9		8:2 FTS (39108-34-4)	<0.9	<0.9		<0.9	<0.9		8:2 FTS (39108-34-4)	<0.9	<0.9		<0.9	<0.9			
HFPO-TA (13252-14-7)		HFPO-TA (13252-14-7)	<4.4	<4.4		<4.4	<4.4		HFPO-TA (13252-14-7)	<4.4	<4.4		<4.4	<4.4		HFPO-TA (13252-14-7)	<4.4	<4.4		<4.4	<4.4			
PFDA (335-76-2)		PFDA (335-76-2)	<0.5	<0.5		<0.5	<0.5		PFDA (335-76-2)	<0.5	<0.5		<0.5	<0.5		PFDA (335-76-2)	<0.5	<0.5		<0.5	<0.5			
MeFOSAA (2355-31-9)		MeFOSAA (2355-31-9)	<0.5	<0.5		<0.5	<0.5		MeFOSAA (2355-31-9)	<0.5	<0.5		<0.5	<0.5		MeFOSAA (2355-31-9)	<0.5	<0.5		<0.5	<0.5			
Branched PFOS		Branched PFOS	<0.6	<0.6		<0.6	<0.6		Branched PFOS	<0.6	<0.6		<0.6	<0.6		Branched PFOS	<0.6	<0.6		<0.6	<0.6			
Linear PFOS (1763-23-1)		Linear PFOS (1763-23-1)	<0.6	<0.6		<0.6	<0.6		Linear PFOS (1763-23-1)	<0.6	<0.6		<0.6	<0.6		Linear PFOS (1763-23-1)	<0.6	<0.6		<0.6	<0.6			
7:3 FTCA (812-70-4)		7:3 FTCA (812-70-4)	<2.5	<2.5		<2.5	<2.5		7:3 FTCA (812-70-4)	<2.5	<2.5		<2.5	<2.5		7:3 FTCA (812-70-4)	<2.5	<2.5		<2.5	<2.5			
EIFOSAA (2991-50-6)		EIFOSAA (2991-50-6)	<1.4	<1.4		<1.4	<1.4		EIFOSAA (2991-50-6)	<1.4	<1.4		<1.4	<1.4		EIFOSAA (2991-50-6)	<1.4	<1.4		<1.4	<1.4			
PFUnA (2058-94-8)		PFUnA (2058-94-8)	<0.5	<0.5		<0.5	<0.5		PFUnA (2058-94-8)	<0.5	<0.5		<0.5	<0.5		PFUnA (2058-94-8)	<0.5	<0.5		<0.5	<0.5			
9CI-PF3ONS (756426-58-1)		9CI-PF3ONS (756426-58-1)	<0.5	<0.5		<0.5	<0.5		9CI-PF3ONS (756426-58-1)	<0.5	<0.5		<0.5	<0.5		9CI-PF3ONS (756426-58-1)	<0.5	<0.5		<0.5	<0.5			
10:2 FTS (120226-60-0)		10:2 FTS (120226-60-0)	<0.8	<0.8		<0.8	<0.8		10:2 FTS (120226-60-0)	<0.8	<0.8		<0.8	<0.8		10:2 FTS (120226-60-0)	<0.8	<0.8		<0.8	<0.8			
FHxSA (41997-13-1)		FHxSA (41997-13-1)	<0.5	<0.5		<0.5	<0.5		FHxSA (41997-13-1)	<0.5	<0.5		<0.5	<0.5		FHxSA (41997-13-1)	<0.5	<0.5		<0.5	<0.5			
PFNS (68259-12-1)		PFNS (68259-12-1)	<0.5	<0.5		<0.5	<0.5		PFNS (68259-12-1)	<0.5	<0.5		<0.5	<0.5		PFNS (68259-12-1)	<0.5	<0.5		<0.5	<0.5			
PFDoA (307-55-1)		PFDoA (307-55-1)	<0.6	<0.6		<0.6	<0.6		PFDoA (307-55-1)	<0.6	<0.6		<0.6	<0.6		PFDoA (307-55-1)	<0.6	<0.6		<0.6	<0.6			
PFDS (335-77-3)		PFDS (335-77-3)	<0.6	<0.6		<0.6	<0.6		PFDS (335-77-3)	<0.6	<0.6		<0.6	<0.6		PFDS (335-77-3)	<0.6	<0.6		<0.6	<0.6			
PFTrDA (72629-94-8)		PFTrDA (72629-94-8)	<0.6	<0.6		<0.6	<0.6		PFTrDA (72629-94-8)	<0.6	<0.6		<0.6	<0.6		PFTrDA (72629-94-8)	<0.6	<0.6		<0.6	<0.6			
11CI-PF3OUdS (763051-92-9)		11CI-PF3OUdS (763051-92-9)	<0.7	<0.7		<0.7	<0.7		11CI-PF3OUdS (763051-92-9)	<0.7	<0.7		<0.7	<0.7		11CI-PF3OUdS (763051-92-9)	<0.7	<0.7		<0.7	<0.7			
PFUnDS (749786-16-1)		PFUnDS (749786-16-1)	<0.5	<0.5		<0.5	<0.5		PFUnDS (749786-16-1)	<0.5	<0.5		<0.5	<0.5		PFUnDS (749786-16-1)	<0.5	<0.5		<0.5	<0.5			
PFTeA (376-06-7)		PFTeA (376-06-7)	<0.5	<0.5		<0.5	<0.5		PFTeA (376-06-7)	<0.5	<0.5		<0.5	<0.5		PFTeA (376-06-7)	<0.5	<0.5		<0.5	<0.5			
PFOSA (754-91-6)		PFOSA (754-91-6)	<0.5	<0.5		<0.5	<0.5		PFOSA (754-91-6)	<0.5	<0.5		<0.5	<0.5		PFOSA (754-91-6)	<0.5	<0.5		<0.5	<0.5			
PFDoS (79780-39-5)		PFDoS (79780-39-5)	<0.5	<0.5		<0.5	<0.5		PFDoS (79780-39-5)	<0.5	<0.5		<0.5	<0.5		PFDoS (79780-39-5)	<0.5	<0.5		<0.5	<0.5			
PFTrDS (174675-49-1)		PFTrDS (174675-49-1)	<0.5	<0.5		<0.5	<0.5		PFTrDS (174675-49-1)	<0.5	<0.5		<0.5	<0.5		PFTrDS (174675-49-1)	<0.5	<0.5		<0.5	<0.5			
MeFOSE (24448-09																								

PFAS Results - Detailed PFAS
Duplicate RPDs in soil sam
RPD % shown in red highlig

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PFAS Results - Detailed Pl
Duplicate RPDs in soil sam
RPD % shown in red highlig

Sampled Date	22/10/2025	22/10/2025
SDG	251024-36	251024-36
Customer ID	GR03-SP332-B-S1 [0.30-0.40] A1	GR03-SP332-B-S1 [0.30-0.40] A2

Sample	32341416	32341418
Soil Organic Matter (SOM)	6.71	3.1
pH	7.66	7.66
PFBA (375-22-4)	<0.5	<0.5
PFMOPIPA (377-73-1)	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8	<0.8
PFPA (2706-90-3)	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5	<0.5
4:2 FTS (175124-72-4)	<0.5	<0.5
NFDHA (151772-58-6)	<1.8	<1
PFHxA (307-24-4)	<0.5	<0.5
PFBS (375-73-5)	<0.5	<0.5
HFPO-DA (13252-13-6)	<1	<1
PFEEA (113507-82-7)	<0.5	<0.5
PFHnA (375-85-9)	<0.5	<0.5
PFPeS (2706-91-4)	<0.5	<0.5
ADONA (919005-14-4)	<0.5	<0.5
6:2 FTS (27619-97-2)	<2.5	<2.5
5:3 FTCA (914637-49-3)	<0.5	<0.5
PFOA (335-67-1)	5.64	4.62
PFHxS (355-46-4)	<0.5	<0.5
FBSA (30334-69-1)	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10	<10
PFNA (375-95-1)	<0.5	<0.5
PFcHS (133201-07-7)	<0.5	<0.5
PFHpS (375-92-8)	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4	<4.4
PFDA (335-76-2)	<0.5	<0.5
MeFOASA (2355-31-9)	<0.5	<0.5
Branched PFOS	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5	<2.5
ElFOASA (2991-50-6)	<1.4	<1.4
PFUnA (2058-94-8)	<0.5	<0.5
9Cl-PPFONS (756426-58-1)	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8	<0.8
FHxSA (41997-13-1)	<0.5	<0.5
PFNS (68259-12-1)	<0.5	<0.5
PFDoA (307-55-1)	<0.6	<0.6
PFDS (335-77-3)	<0.6	<0.6
PFTrDA (72629-94-8)	<0.7	<0.7
11Cl-PPFOSuS (763051-92-9)	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5	<0.5
PFTeA (376-06-7)	<0.5	<0.5
PFOSA (754-91-6)	<0.5	<0.5
PFDoS (79780-39-5)	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5	<0.5
MeFOSe (24448-09-7)	<5	<5
PFHxDA (67905-19-5)	<0.5	<0.5
N-MeFOSA (31506-32-8)	<0.5	<0.5
8:2 diAPA (678-41-1)	<0.9	<0.9
ElFOSE (1691-99-2)	<5	<5
N-ElFOSA (4151-50-2)	<0.5	<0.5
PFODA (16517-11-6)	<0.5	<0.5
Total PFOS	<0.6	<0.6
Total Identified PFAS	<51	<51

Land at Thornton-Cleveleys Soils Duplicate Analysis Results (ALS Data)

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highlig

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PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highlig

06/02/2026 8 of 16 Prepared by WSP on behalf of the Environment Agency

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highlig

Sampled Date	07/11/2025	07/11/2025		07/11/2025	07/11/2025	
SDG	251110-25	251110-25		251110-25	251110-25	
Customer ID	GR03-SP308-D-S1 [0.40-0.50] A1	GR03-SP308-D-S1 [0.40-0.50] A2	RPD % Analytical Precision	GR03-SP308-D-S2 [0.40-0.50] A1	GR03-SP308-D-S2 [0.40-0.50] A2	RPD % Analytical Precision

Sample	32430554	32430556	32430554 / 32430556	32430558	32430561	32430558 / 32430561
Soil Organic Matter (SOM)	2.5	2.83	-12	1.59	2.88	-58
pH	8.39	8.55	-2	8.28	8.32	0
PFBA (375-22-4)	0.965	<0.5		<0.5	<0.5	
PFMOPrA (377-73-1)	<0.5	<0.5		<0.5	<0.5	
3:3 FTCA (356-02-5)	<0.8	<0.8		<0.8	<0.8	
PFPA (2706-90-3)	4.53	<0.5		<0.5	<0.5	
PFMOBA (863090-89-5)	<0.5	<0.5		<0.5	<0.5	
4:2 FTS (757124-72-4)	<0.5	<0.5		<0.5	<0.5	
NFDHA (151772-58-6)	<1.8	<1.8		<1.8	<1.8	
PFHxA (307-24-4)	1.04	<0.5		<0.5	<0.5	
PFBS (375-73-5)	<0.5	<0.5		<0.5	<0.5	
HFPO-DA (13252-13-6)	<1	<1		<1	<1	
PFEESA (113507-82-7)	<0.5	<0.5		<0.5	<0.5	
PFHpA (375-85-9)	<0.5	<0.5		<0.5	<0.5	
PFPeS (2706-91-4)	<0.5	<0.5		<0.5	<0.5	
ADONA (919005-14-4)	<0.5	<0.5		<0.5	<0.5	
6:2 FTS (27619-97-2)	<0.5	<0.5		<0.5	<0.5	
5:3 FTCA (914637-49-3)	<2.5	<2.5		<2.5	<2.5	
PFOA (335-67-1)	40.5	25.4	46	79.6	15.2	136
PFHxS (355-46-4)	<0.5	<0.5		<0.5	<0.5	
FBSA (30334-69-1)	<0.5	<0.5		<0.5	<0.5	
6:2 FTAB (34455-29-3)***	<10	<10		<10	<10	
PFNA (375-95-1)	<0.5	<0.5		<0.5	<0.5	
PFcHS (133201-07-7)	<0.5	<0.5		<0.5	<0.5	
PFHpS (375-92-8)	<0.6	<0.6		<0.6	<0.6	
8:2 FTS (39108-34-4)	<0.9	<0.9		<0.9	<0.9	
HFPO-TA (13252-14-7)	<4.4	<4.4		<4.4	<4.4	
PFDA (335-76-2)	0.897	<0.5		<0.5	<0.5	
MeFOSAA (2355-31-9)	<0.5	<0.5		<0.5	<0.5	
Branched PFOS	<0.6	<0.6		<0.6	<0.6	
Linear PFOS (1763-23-1)	11.4	<0.6		<0.6	<0.6	
7:3 FTCA (812-70-4)	<2.5	<2.5		<2.5	<2.5	
ElFOSAA (2991-50-6)	<1.4	<1.4		<1.4	<1.4	
PFuNA (2058-94-8)	1.28	<0.5		<0.5	<0.5	
9Cl-PF3ONS (756426-58-1)	<0.5	<0.5		<0.5	<0.5	
10:2 FTS (120226-60-0)	<0.8	<0.8		<0.8	<0.8	
FHxSA (41997-13-1)	<0.5	<0.5		<0.5	<0.5	
PFNS (68259-12-1)	<0.5	<0.5		<0.5	<0.5	
PFDoA (307-55-1)	1.88	<0.6		<0.6	<0.6	
PFDS (335-77-3)	<0.6	<0.6		<0.6	<0.6	
PFTrDA (72629-94-8)	3.2	<0.6		<0.6	<0.6	
11Cl-PF3OUdS (763051-92-9)	<0.7	<0.7		<0.7	<0.7	
PFUnDS (749786-16-1)	<0.5	<0.5		<0.5	<0.5	
PFTEA (376-06-7)	2.53	<0.5		<0.5	<0.5	
PFOSA (754-91-6)	<0.5	<0.5		<0.5	<0.5	
PFDoS (79780-39-5)	<0.5	<0.5		<0.5	<0.5	
PFTrDS (174675-49-1)	<0.5	<0.5		<0.5	<0.5	
MeFOSE (24448-09-7)	<5	<5		<5	<5	
PFHxDA (67905-19-5)	1.29	<0.5		<0.5	<0.5	
N-MeFOSA (31506-32-8)	<0.5	<0.5		<0.5	<0.5	
8:2 diPAP (678-41-1)	<0.9	<0.9		<0.9	<0.9	
ElFOSE (1691-99-2)	<5	<5		<5	<5	
N-ElFOSE (4151-50-2)	<0.5	<0.5		<0.5	<0.5	
PFODA (16517-11-6)	<0.5	<0.5		<0.5	<0.5	
Total PFOS	11.4	<0.6		<0.6	<0.6	
Total Identified PFAS	69.5	51	31	79.6	51	44

PFAS Results - Detailed Pt
Duplicate RPDs in soil sam
RPD % shown in red highlig

26/02/2026 10 of 16 Prepared by WSP on behalf of the Environment Agency

Thornton Phase :

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highli

Sampled Date SDG	03/11/2025 251107-27			Sampled Date SDG	23/10/2025 251028-34	23/10/2025 251028-34		23/10/2025 251028-34	23/10/2025 251028-34			Sampled Date SDG	27/10/2025 251029-28	27/10/2025 251029-28		27/10/2025 251029-28	27/10/2025 251029-28			Sampled Date SDG	22/10/2025 251024-36	22/10/2025 251024-36
Customer ID	GR03-SP305-E-S2 [0.40-0.50] A2	RPD % Analytical Precision		Customer ID	GR03-SP321-E-S1 [0.00-0.10] A1	GR03-SP321-E-S1 [0.00-0.10] A2	RPD % Analytical Precision	GR03-SP321-E-S2 [0.00-0.10] A1	GR03-SP321-E-S2 [0.00-0.10] A2	RPD % Analytical Precision		Customer ID	GR03-SP323-E-S1 [0.50-0.60] A1	GR03-SP323-E-S1 [0.50-0.60] A2	RPD % Analytical Precision	GR03-SP323-E-S2 [0.50-0.60] A1	GR03-SP323-E-S2 [0.50-0.60] A2	RPD % Analytical Precision		Customer ID	GR03-SP335-F-S1 [0.50-0.60] A1	GR03-SP335-F-S1 [0.50-0.60] A2
Sample	32412908	32412904 / 32412908		Sample	32358408	32358410	32358408 / 32358410	32358416	32358418	32358416 / 32358418		Sample	32361274	32361277	32361274 / 32361277	32361280	32361287	32361280 / 32361287		Sample	32341390	32341394
Soil Organic Matter (SOM)	1.26	-55		Soil Organic Matter (SOM)	9.91	8.93	10	6.03	5.9	2		Soil Organic Matter (SOM)	1.12	0.965	15	1.06	1.35	-24		Soil Organic Matter (SOM)	3.71	3.33
pH	7.99	2		pH	6.98	6.71	4	6.67	6.95	-4		pH	6.96	7.13	-2	6.76	7.06	-4		pH	8.22	8.08
PFBA (375-22-4)	<0.5			PFBA (375-22-4)	<0.5	<0.5		<0.5	<0.5			PFBA (375-22-4)	<0.5	<0.5		<0.5	<0.5			PFBA (375-22-4)	<0.5	<0.5
PFMOPrA (377-73-1)	<0.5			PFMOPrA (377-73-1)	<0.5	<0.5		<0.5	<0.5			PFMOPrA (377-73-1)	<0.5	<0.5		<0.5	<0.5			PFMOPrA (377-73-1)	<0.5	<0.5
3:3 FTCA (356-02-5)	<0.8			3:3 FTCA (356-02-5)	<0.8	<0.8		<0.8	<0.8			3:3 FTCA (356-02-5)	<0.8	<0.8		<0.8	<0.8			3:3 FTCA (356-02-5)	<0.8	<0.8
PFPA (2706-90-3)	<0.5			PFPA (2706-90-3)	0.967	0.5	64	0.5	0.984	-65		PFPA (2706-90-3)	<0.5	<0.5		<0.5	<0.5			PFPA (2706-90-3)	<0.5	<0.5
PFMOBA (863090-89-5)	<0.5			PFMOBA (863090-89-5)	<0.5	<0.5		<0.5	<0.5			PFMOBA (863090-89-5)	<0.5	<0.5		<0.5	<0.5			PFMOBA (863090-89-5)	<0.5	<0.5
4:2 FTS (757124-72-4)	<0.5			4:2 FTS (757124-72-4)	<0.5	<0.5		<0.5	<0.5			4:2 FTS (757124-72-4)	<0.5	<0.5		<0.5	<0.5			4:2 FTS (757124-72-4)	<0.5	<0.5
NFDHA (151772-58-6)	<1.8			NFDHA (151772-58-6)	<1.8	<1.8		<1.8	<1.8			NFDHA (151772-58-6)	<1.8	<1.8		<1.8	<1.8			NFDHA (151772-58-6)	<1.8	<1.8
PFHxA (307-24-4)	<0.5			PFHxA (307-24-4)	<0.5	<0.5		<0.5	<0.5			PFHxA (307-24-4)	<0.5	<0.5		<0.5	<0.5			PFHxA (307-24-4)	<0.5	<0.5
PFBS (375-73-5)	<0.5			PFBS (375-73-5)	<0.5	<0.5		<0.5	<0.5			PFBS (375-73-5)	<0.5	<0.5		<0.5	<0.5			PFBS (375-73-5)	<0.5	<0.5
HFPO-DA (13252-13-6)	<1			HFPO-DA (13252-13-6)	<1	<1		<1	<1			HFPO-DA (13252-13-6)	<1	<1		<1	<1			HFPO-DA (13252-13-6)	<1	<1
PFEESA (113507-82-7)	<0.5			PFEESA (113507-82-7)	<0.5	<0.5		<0.5	<0.5			PFEESA (113507-82-7)	<0.5	<0.5		<0.5	<0.5			PFEESA (113507-82-7)	<0.5	<0.5
PFHpA (375-85-9)	<0.5			PFHpA (375-85-9)	<0.5	<0.5		<0.5	<0.5			PFHpA (375-85-9)	<0.5	<0.5		<0.5	<0.5			PFHpA (375-85-9)	<0.5	<0.5
PFPeS (2706-91-4)	<0.5			PFPeS (2706-91-4)	<0.5	<0.5		<0.5	<0.5			PFPeS (2706-91-4)	<0.5	<0.5		<0.5	<0.5			PFPeS (2706-91-4)	<0.5	<0.5
ADONA (919005-14-4)	<0.5			ADONA (919005-14-4)	<0.5	<0.5		<0.5	<0.5			ADONA (919005-14-4)	<0.5	<0.5		<0.5	<0.5			ADONA (919005-14-4)	<0.5	<0.5
6:2 FTS (27619-97-2)	<0.5			6:2 FTS (27619-97-2)	<0.5	<0.5		<0.5	<0.5			6:2 FTS (27619-97-2)	<0.5	<0.5		<0.5	<0.5			6:2 FTS (27619-97-2)	<0.5	<0.5
5:3 FTCA (914637-49-3)	<2.5			5:3 FTCA (914637-49-3)	<2.5	<2.5		<2.5	<2.5			5:3 FTCA (914637-49-3)	<2.5	<2.5		<2.5	<2.5			5:3 FTCA (914637-49-3)	<2.5	<2.5
PFOA (335-67-1)	0.955	18		PFOA (335-67-1)	3.69	2.08	56	2.44	3.12	-24		PFOA (335-67-1)	3.57	3.08	15	3.43	4.55	-28		PFOA (335-67-1)	3.6	3.31
PFHxS (355-46-4)	<0.5			PFHxS (355-46-4)	<0.5	<0.5		<0.5	<0.5			PFHxS (355-46-4)	<0.5	<0.5		<0.5	<0.5			PFHxS (355-46-4)	<0.5	<0.5
FBSA (30334-69-1)	<0.5			FBSA (30334-69-1)	<0.5	<0.5		<0.5	<0.5			FBSA (30334-69-1)	<0.5	<0.5		<0.5	<0.5			FBSA (30334-69-1)	<0.5	<0.5
6:2 FTAB (34455-29-3)***	<10			6:2 FTAB (34455-29-3)***	<10	<10		<10	<10			6:2 FTAB (34455-29-3)***	<10	<10		<10	<10			6:2 FTAB (34455-29-3)***	<10	<10
PFNA (375-95-1)	<0.5			PFNA (375-95-1)	<0.5	<0.5		<0.5	<0.5			PFNA (375-95-1)	<0.5	<0.5		<0.5	<0.5			PFNA (375-95-1)	<0.5	<0.5
PFecHS (133201-07-7)	<0.5			PFecHS (133201-07-7)	<0.5	<0.5		<0.5	<0.5			PFecHS (133201-07-7)	<0.5	<0.5		<0.5	<0.5			PFecHS (133201-07-7)	<0.5	<0.5
PFHpS (375-92-8)	<0.6			PFHpS (375-92-8)	<0.6	<0.6		<0.6	<0.6			PFHpS (375-92-8)	<0.6	<0.6		<0.6	<0.6			PFHpS (375-92-8)	<0.6	<0.6
8:2 FTS (39108-34-4)	<0.9			8:2 FTS (39108-34-4)	<0.9	<0.9		<0.9	<0.9			8:2 FTS (39108-34-4)	<0.9	<0.9		<0.9	<0.9			8:2 FTS (39108-34-4)	<0.9	<0.9
HFPO-TA (13252-14-7)	<4.4			HFPO-TA (13252-14-7)	<4.4	<4.4		<4.4	<4.4			HFPO-TA (13252-14-7)	<4.4	<4.4		<4.4	<4.4			HFPO-TA (13252-14-7)	<4.4	<4.4
PFDA (335-76-2)	<0.5			PFDA (335-76-2)	<0.5	<0.5		<0.5	<0.5			PFDA (335-76-2)	<0.5	<0.5		<0.5	<0.5			PFDA (335-76-2)	<0.5	<0.5
MeFOSAA (2355-31-9)	<0.5			MeFOSAA (2355-31-9)	<0.5	<0.5		<0.5	<0.5			MeFOSAA (2355-31-9)	<0.5	<0.5		<0.5	<0.5			MeFOSAA (2355-31-9)	<0.5	<0.5
Branched PFOS	<0.6			Branched PFOS	<0.6	<0.6		<0.6	<0.6			Branched PFOS	<0.6	<0.6		<0.6	<0.6			Branched PFOS	<0.6	<0.6
Linear PFOS (1763-23-1)	<0.6			Linear PFOS (1763-23-1)	1.05	0.94	11	0.6	1.29	-73		Linear PFOS (1763-23-1)	<0.6	<0.6		<0.6	<0.6			Linear PFOS (1763-23-1)	<0.6	<0.6
7:3 FTCA (812-70-4)	<2.5			7:3 FTCA (812-70-4)	<2.5	<2.5		<2.5	<2.5			7:3 FTCA (812-70-4)	<2.5	<2.5		<2.5	<2.5			7:3 FTCA (812-70-4)	<2.5	<2.5
ElFOSAA (2991-50-6)	<1.4			ElFOSAA (2991-50-6)	<1.4	<1.4		<1.4	<1.4			ElFOSAA (2991-50-6)	<1.4	<1.4		<1.4	<1.4			ElFOSAA (2991-50-6)	<1.4	<1.4
PFUnA (2058-94-8)	<0.5			PFUnA (2058-94-8)	<0.5	<0.5		<0.5	<0.5			PFUnA (2058-94-8)	<0.5	<0.5		<0.5	<0.5			PFUnA (2058-94-8)	<0.5	<0.5
9CI-PF3ONS (756426-58-1)	<0.5			9CI-PF3ONS (756426-58-1)	<0.5	<0.5		<0.5	<0.5			9CI-PF3ONS (756426-58-1)	<0.5	<0.5		<0.5	<0.5			9CI-PF3ONS (756426-58-1)	<0.5	<0.5
10:2 FTS (120226-60-0)	<0.8			10:2 FTS (120226-60-0)	<0.8	<0.8		<0.8	<0.8			10:2 FTS (120226-60-0)	<0.8	<0.8		<0.8	<0.8			10:2 FTS (120226-60-0)	<0.8	<0.8
FHxSA (41997-13-1)	<0.5			FHxSA (41997-13-1)	<0.5	<0.5		<0.5	<0.5			FHxSA (41997-13-1)	<0.5	<0.5		<0.5	<0.5			FHxSA (41997-13-1)	<0.5	<0.5
PFNS (68259-12-1)	<0.5			PFNS (68259-12-1)	<0.5	<0.5		<0.5	<0.5			PFNS (68259-12-1)	<0.5	<0.5		<0.5	<0.5			PFNS (68259-12-1)	<0.5	<0.5
PFDoA (307-55-1)	<0.6			PFDoA (307-55-1)	<0.6	<0.6		<0.6	<0.6			PFDoA (307-55-1)	<0.6	<0.6		<0.6	<0.6			PFDoA (307-55-1)	<0.6	<0.6
PFDS (335-77-3)	<0.6			PFDS (335-77-3)	<0.6	<0.6		<0.6	<0.6			PFDS (335-77-3)	<0.6	<0.6		<0.6	<0.6			PFDS (335-77-3)	<0.6	<0.6
PFTrDA (72629-94-8)	<0.6			PFTrDA (72629-94-8)	<0.6	<0.6		<0.6	<0.6			PFTrDA (72629-94-8)	<0.6	<0.6		<0.6	<0.6			PFTrDA (72629-94-8)	<0.6	<0.6
11CI-PF3OUdS (763051-92-9)	<0.7			11CI-PF3OUdS (763051-92-9)	<0.7	<0.7		<0.7	<0.7			11CI-PF3OUdS (763051-92-9)	<0.7	<0.7		<0.7	<0.7			11CI-PF3OUdS (763051-92-9)	<0.7	<0.7
PFUnDS (749786-16-1)	<0.5			PFUnDS (749786-16-1)	<0.5	<0.5		<0.5	<0.5			PFUnDS (749786-16-1)	<0.5	<0.5		<0.5	<0.5			PFUnDS (749786-16-1)	<0.5	<0.5
PFTeA (376-06-7)	<0.5			PFTeA (376-06-7)	<0.5	<0.5		<0.5	<0.5			PFTeA (376-06-7)	<0.5	<0.5		<0.5	<0.5			PFTeA (376-06-7)	<0.5	<0.5
PFOSA (754-91-6)	<0.5			PFOSA (754-91-6)	<0.5	<0.5		<0.5	<0.5			PFOSA (754-91-6)	<0.5	<0.5		<0.5	<0.5			PFOSA (754-91-6)	<0.5	<0.5
PFDoS (79780-39-5)	<0.5			PFDoS (79780-39-5)	<0.5	<0.5		<0.5	<0.5			PFDoS (79780-39-5)	<0.5	<0.5		<0.5	<0.5			PFDoS (79780-39-5)	<0.5	<0.5
PFTrDS (174675-49-1)	<0.5			PFTrDS (174675-49-1)	<0.5	<0.5		<0.5	<0.5			PFTrDS (174675-49-1)	<0.5	<0.5		<0.5	<0.5			PFTrDS (174675-49-1)	<0.5	<0.5
MeFOSE (24448-09-7)	<5			MeFOSE (24448-09-7)	<5	<5		<5	<5			MeFOSE (24448-09-7)	<5	<5		<5	<5			MeFOSE (24448-09-7)	<5	<5
PFHxDA (67905-19-5)	<0.5			PFHxDA (67905-19-5)	<0.5	<0.5		<0.5	<0.5			PFHxDA (67905-19-5)	<0.5	<0.5		<0.5	<0.5			PFHxDA (67905-19-5)	<0.5	<0.5
N-MeFOSA (31506-32-8)	<0.5			N-MeFOSA (31506-32-8)	<0.5	<0.5		<0.5	<0.5			N-MeFOSA (31506-32-8)	<0.5	<0.5		<0.5	<0.5			N-MeFOSA (31		

PFAS Results - Detailed PH
Duplicate RPDs in soil sam
RPD % shown in red highlig

[illegible][illegible][illegible]

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highlig

RPD % Sampling Precision
GR03-SP312-E

[illegible]

PFAS Results - Detailed PFAS
Duplicate RPDs in soil sam
RPD % shown in red highli

26/02/2026 14 of 16 Prepared by WSP on behalf of the Environment Agency

PFAS Results - Detailed PH
Duplicate RPDs in soil sam
RPD % shown in red highlig

26/02/2026 15 of 16 Prepared by WSP on behalf of the Environment Agency

Thornton Phase :

PFAS Results - Detailed PI
Duplicate RPDs in soil sam
RPD % shown in red highliq

Sampled Date	
SDG	
Customer ID	
Sampling Precision P320-A	
Sample	32475584 / 32475586
Soil Organic Matter (SOM)	
pH	
PFBA (375-22-4)	
PFMOPIA (377-73-1)	
3:3 FTCA (356-02-5)	
PFPA (2706-90-3)	
PFMOBA (863090-89-5)	
4:2 FTS (757124-72-4)	
NFDHA (151772-58-6)	
PFHxA (307-24-4)	
PFBS (375-73-5)	
HFPO-DA (13252-13-6)	
PFEESA (113507-82-7)	
PFHpA (375-85-9)	
PFPeS (2706-91-4)	
ADONA (919005-14-4)	
6:2 FTS (27619-97-2)	
5:3 FTCA (914637-49-3)	
PFOA (335-67-1)	
PFHxS (355-46-4)	
FBSA (30334-69-1)	
6:2 FTAB (34455-29-3)***	
PFNA (375-95-1)	
PFecHS (133201-07-7)	
PFHpS (375-92-8)	
8:2 FTS (39108-34-4)	
HFPO-TA (13252-14-7)	
PFDA (335-76-2)	
MeFOSAA (2355-31-9)	
Branched PFOS	
Linear PFOS (1763-23-1)	
7:3 FTCA (812-70-4)	
ElFOSAA (2991-50-6)	
PFUnA (2058-94-8)	
9Cl-PF3ONS (756426-58-1)	
10:2 FTS (120226-60-0)	
FHxSA (41997-13-1)	
PFNS (68259-12-1)	
PFDoA (307-55-1)	
PFDS (335-77-3)	
PFTTrDA (72629-94-8)	
11Cl-PF3OUdS (763051-92-9)	
PFUnDS (749786-16-1)	
PFTeA (376-06-7)	
PFOSA (754-91-6)	89
PFDoS (79780-39-5)	
PFTTrDS (174675-49-1)	
MeFOSE (24448-09-7)	
PFHxDA (67905-19-5)	
N-MeFOSA (31506-32-8)	
8:2 diPAP (678-41-1)	
ElFOSE (1691-99-2)	
N-ElFOSA (4151-50-2)	
PFODA (16517-11-6)	
Total PFOS	
Total Identified PFAS	



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