Capital Airport Group

25-27 Catalina Drive - Canberra Airport, ACT 2609

Detailed Site Investigation (DSI) Report

Project No: 121544

November 2019

Prepared For:

Capital Airport Group Pty Ltd
Level 4, 21 Terminal Avenue
Plaza Offices – West
Canberra Airport

Meinhardt Infrastructure & Environment

Level 12, 501 Swanston Street
Melbourne, Vic 3000

P. 03 8676 1200 | F. 03 8676 1201
www.meinhardtgroup.com

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Rev	Date	Details	Written	Reviewed	Approved
A	11/10/19	CAG-25-27 Catalina Drive Canberra Airport Detailed Site Investigation	MG	SP	SP
B	11/11/19	CAG-25-27 Catalina Drive Canberra Airport Detailed Site Investigation	MG	SP	SP
0	13/11/19	CAG-25-27 Catalina Drive Canberra Airport Detailed Site Investigation	MG	SP	SP

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Executive Summary

Meinhardt Infrastructure & Environment Pty Ltd (**Meinhardt**) was engaged by Capital Airport Group (**CAG**), to provide environmental advice and services associated with the assessment of soils and groundwater (**GW**) at 25 – 27 Catalina Drive (**the Site**), a parcel of land located landside in the north western portion of the Canberra Airport, ACT 2609 (**the Airport**). The Site is largely vacant, with the exemption of a pedestrian footpath that runs from west to east and trees adjacent to the western, northern and eastern boundaries of the Site .

As part of ongoing commercial development works at Canberra Airport, CAG is proposing to construct a commercial building at the Site, either with or without basement levels, and wish to assess on-site soils and GW prior to development occurring. The works completed will also inform a response to Minister for Infrastructure, Transport and Regional Development's conditions on CAG's draft Major Development Plan for 25 Catalina Drive[1].

This report pertains to a Detailed Site Investigation (**DSI**) conducted at the Site during September and October 2019. The objectives of conducting these works were as follows:

- To assess the current contamination status of soils and GW at the Site for site characterisation purposes with a specific focus on typical contaminants of concern at airports, including Per and Polyfluoroalkyl Substances (**PFAS)**;
- To screen the results of soil and GW against the relevant ecological and human health guidance; and
- To provide CAG with this DSI report detailing the works completed, results of all soil and GW analyses conducted at the Site and provision of conclusions and recommendations, as required.

The purpose of conducting these works were:

- To provide CAG with sufficient information to understand the current contamination status of the Site and the potential risks posed by the soils and GW to ecological and human receptors.
- To allow CAG to respond to the Minister's conditions on the draft Major Development Plan for the 25 Catalina Drive site in relation to the condition of soil and GW.

The investigation conducted comprised the following scope of work:

- Investigation of soils at a total of 17 locations (CAG-CAT01-SB01 – CAG-CAT-SB17);
- Installation and development of three (3) GW monitoring wells (**MWs**) (CAG-CAT01-MW01 – CAG-CAT01-MW03[2]) at three (3) of the soil bore investigation locations;
- Analysis of soil samples for a range of Contaminants of Potential Concern (**CoPC**) for airport sites, including PFAS;
- Completion of a GW monitoring event (**GME**) at the Site assess the presence and distribution of potential impacts to GW;
- Analysis of GW samples for a range of CoPC for airport sites, including PFAS; and
- Preparation of a DSI report, detailing the intrusive works completed, methodology applied, sampling, discussion of the results of sample analysis with screening against the applicable guideline criteria, as well as provision of conclusions and recommendations for any further works, as required.

Based on the findings of the assessment conducted, Meinhardt drew the following conclusions:

- The soil profile at the Site was noted to consist of locally extensive silts and clayey silts (fill) which was underlain by natural silty clay, clayey silt, clay, sandstone and sandy clays. This lithological profile is generally consistent with that observed across much of the Site during previous assessments conducted at the Airport;

[1] Letter from The Hon Michael McCormack MP to Mr. Stephen Byron, *Ref: MS18-002272*, February 2019.
[2] CAG-CAT01-SB02, CAG-CAT01-SB06 and CAG-CAT01-SB17 were converted into monitoring wells CAG-CAT01-MW01, CAG-CAT01-MW02, and CAG-CAT01-MW03, respectively.

- GW was encountered at approximately 4.0 mbgl and three (3) SBs were converted to MWs to allow for assessment of impacts to GW;
- No visual and/or olfactory indicators of soil contamination were noted during the soil and GW assessment works conducted at the Site;
- A total of 122 primary soil samples were collected from the SB locations advanced across the Site, and all soils analysed were found to be largely free of typical contaminants of concern for airport sites including TRH, BTEXN, PAH, phenols, PCBs, chlorinated hydrocarbons, herbicide and pesticides;
- There were no reported exceedances of the adopted ecological and human health screening criteria for soil samples collected from the Site and therefore it was considered unlikely that the soils posed a risk to on-site ecological receptors and human health in the current and future proposed land use scenarios;
- There were no reported exceedances of the adopted buildings and structures screening criteria for soil samples collected from the Site and therefore it is considered unlikely that the soils beneath the Site posed a significant risk to the any future footings or building penetrations;
- While no exceedances were noted, detectable concentrations of PFAS (both total and leachable) were reported in all 17 investigation locations;
- The reason for the presence of detectable PFAS in soils at the Site was not immediately apparent;
- No Asbestos Containing Material (**ACM**) was detected in the soil samples analysed for asbestos;
- A total of three (3) primary GW samples were collected from the three (3) MWs installed at the Site. Each sample was analysed for a comprehensive suite of contaminants including PFAS;
- Based on GW level and survey data, GW beneath the Site was inferred to flow in a south westerly direction towards the Molonglo River;
- GW samples collected from the Site were found to be free of TRH, PAH and other fuel additives (BTEXN);
- GW samples collected from the Site were found to contain various contaminants/potential contaminants at concentrations exceeding the adopted ecological and/or human health screening criteria for PFAS, metals and inorganic compounds for applicable environmental values, as below:
    - **Ecological** – 16 exceedances of the adopted ecological criteria for PFAS and metals (Al, Cu, Pb and Zn – some of which may be background/naturally occurring). These were noted in GW across the Site.
    - **Irrigation Water Supply** – Four (4) exceedances of adopted irrigation criteria for inorganics (chloride and sodium). These were noted in GW across the Site.
    - **Water Based Recreation** – Three (3) exceedances of the adopted water-based recreation criteria for PFAS. These were noted in GW across the Site.
    - **Aesthetics** – Five (5) exceedances of the adopted aesthetic criteria for metals (Fe) and inorganic compounds (TDS and chloride). These were noted in GW across the Site.
- On review of the data Meinhardt considers that impacts to GW at the Site have the potential to pose a risk to some of the applicable on and/or off-site environmental values. In particular, PFAS impacts are considered to preclude most uses of GW where present;
- The elevated metals results are considered likely to be representative of a combination of naturally elevated background metals in GW and localised affects from imported fill soils;
- PFAS impacts were noted in GW across the Site, with all three (3) MWs reporting results that exceeded the applicable ecological and/or human health criteria;
- The most obvious sources for PFAS impacts to GW at the Site are considered to be the ARFF activities historically conducted at the airside Fire Station and Fire Training Ground, located in the south eastern and north eastern parts of Canberra Airport, respectively; and

- A potential issue exists in relation to the management of PFAS impacted soil and/or groundwater should the soils be excavated for off-site disposal or if GW is intersected during construction activities. Meinhardt understands that CAG does not intend to develop the land to a depth that intersects GW and will manage PFAS-impacted soil appropriately during development (including appropriate disposal of soils to a licenced soil waste-accepting facility, as required).

In light of the conclusions of this soil assessment, Meinhardt makes the following recommendations:

- CAG should consider the implications of depth to GW and the presence of PFAS (in both soils and GW) when developing the Site for commercial/industrial land use. Meinhardt understands that CAG is unlikely to proceed with the construction of basement levels as part of the 25-27 Catalina Drive development based on the findings of this investigation;
- Should CAG wish to remove soils from the Site as part of earthworks during construction, it is recommended that a waste categorisation report be prepared for the soils requiring off-site transport. Meinhardt is in the process of preparing this for CAG.
- CAG should consider preparing an appropriate Construction Environmental Management Plan (**CEMP**) for future earthworks proposed at the Site in line with the Minister's conditions for any development at the Site; and
- Should the MWs installed as part of these works not be required in the future, they should be appropriately decommissioned to block any preferential pathway from surface to the water table.

1 Introduction

1.1 Background

Meinhardt Infrastructure & Environment Pty Ltd (**Meinhardt**) was engaged by Capital Airport Group (**CAG**), to provide environmental advice and services associated with the assessment of soils and groundwater (**GW**) at 25 – 27 Catalina Drive (**the Site**), a parcel of land located landside in the north western portion of the Canberra Airport, ACT 2609 (**the Airport**). The Site is bound to the north by Spitfire Ave, to east by Dakota Drive, to the west by Catalina Drive and to the south by a Kingswim swimming centre. The Site is largely vacant, with the exemption of a pedestrian footpath that runs from west to east and trees adjacent to the western, northern and eastern boundaries of the Site . A plan showing the location of the Site is included as ***Appendix A, Figure 1***.

Meinhardt has previously provided environmental consulting services to CAG for soil investigation works on the wider Canberra Airport site. The works completed for CAG to date have consisted of assessment of soils for contaminants of concern including Per and Polyfluoroalkyl Substances (**PFAS**) and the management of soils across the airport in accordance with State and Federal legislation. The soils assessed have consisted of stockpiled material generated as a result of the development of land around the perimeter of the Airport and in-situ soils in vacant airside and landside area of the airport.

As part of ongoing commercial development works at Canberra Airport, CAG is proposing to construct a commercial building at the Site, either with or without basement levels, and wish to assess on-site soils and GW prior to development occurring.

Meinhardt has not previously investigated the soils at this Site and understands that assessment is required to provide sufficient information to characterise and inform CAG about the current contamination status of soils within the Site from an environmental and health perspective, as well as for waste soil categorisation purposes. The works completed will also inform a response to Minister for Infrastructure, Transport and Regional Development's conditions on CAG's draft Major Development Plan for 25 Catalina Drive[3].

This report pertains to the Detailed Site Investigation (**DSI**) conducted at the Site. A separate report will be produced to provide CAG with a soil waste categorisation of soils at the Site.

1.2 Objectives and Purpose

Meinhardt understands that the objectives of conducting these works were as follows:

- To assess the current contamination status of soils and GW at the Site for site characterisation purposes with a specific focus on typical contaminants of concern at airports, including PFAS;
- To screen the results of soil and GW against the relevant ecological and human health guidance; and
- To provide CAG with this DSI report detailing the works completed, results of all soil and GW analyses conducted at the Site and provision of conclusions and recommendations, as required.

The purpose of conducting these works were as follows:

- To provide CAG with sufficient information to understand the current contamination status of the Site and the potential risks posed by the soils and GW to ecological and human receptors.
- To allow CAG to respond to the Minister's conditions on the draft Major Development Plan for the 25 Catalina Drive site in relation to the condition of soil and GW.

1.3 Scope of Works

To assist CAG in assessing potential impacts to soil and GW at the Site, Meinhardt completed the following scope of works:

- Investigation of soils at a total of 17 locations (CAG-CAT01-SB01 – CAG-CAT-SB17);

[3] Letter from The Hon Michael McCormack MP to Mr. Stephen Byron, *Ref: MS18-002272*, February 2019.

- Installation and development of three (3) GW monitoring wells (**MWs**) (CAG-CAT01-MW01 – CAG-CAT01-MW03[4]) at three (3) of the soil bore investigation locations;
- Analysis of soil samples for a range of Contaminants of Potential Concern (**CoPC**) for airport sites, including PFAS;
- Completion of a GW monitoring event (**GME**) at the Site assess the presence and distribution of potential impacts to GW;
- Analysis of GW samples for a range of CoPC for airport sites, including PFAS; and
- Preparation of a DSI report, detailing the intrusive works completed, methodology applied, sampling, discussion of the results of sample analysis with screening against the applicable guideline criteria, as well as provision of conclusions and recommendations for any further works, as required.

[4] CAG-CAT01-SB02, CAG-CAT01-SB06 and CAG-CAT01-SB17 were converted into monitoring wells CAG-CAT01-MW01, CAG-CAT01-MW02, and CAG-CAT01-MW03, respectively.

2 Methodology

The soil and GW assessment works completed at the Site were completed in general accordance with the following, currently applicable best practice guidance documents:

- ACT EPA, *Contaminated Sites – Environment Protection Policy,* 2017 (**ACT EPA 2017**);
- ACT EPA, *Environmental Guidelines for Service Station Sites and Hydrocarbon Storage,* 2014 (**ACT EPA 2014**);
- ACT EPA, *Water Quality – Environment Protection Policy,* 2008 (**ACT EPA 2008**);
- ACT Government, *Environmental Protection ACT 1997,* 2017 (**ACT EP Act 2017**);
- ACT Government, *Environmental Protection Regulation 2005*, 2017 (**ACT EP Regulation 2017**);
- Standards Australia, *Australian Standard 4482.1 – Guide to the investigation and sampling of sites with potentially contaminated soil: Part 1*, 2005 (**AS4482.1-2005**);
- Australian Government, *Airports (Environmental Protection) Regulations*, 1997 (**Airports Regulations 1997**);
- EPA Victoria, *Publication 669 – Groundwater Sampling Guidelines*, 2000 (**EPA VIC Publication 669**);
- Heads of EPA, *PFAS National Environmental Management Plan*, January 2018 (**PFAS NEMP 2018**); and
- National Environment Protection Council, *National Environment Protection (Assessment of Site Contamination) Measure*, 1999 (as amended 2013) (**NEPM 2013**).

Details on the methodology adopted during the investigations conducted at the Site are discussed in the following sections.

2.1 Sitework Preparation

Prior to attending the site, Meinhardt prepared a project specific Job Safety Analysis and Occupation Health, Safety and Environmental Plan, and obtained copies of Dial-Before-You-Dig (**DBYD**) plans for the Site along with Canberra Airport service plans, in order to minimise the risk of encountering and damaging buried services during drilling. In addition, a service locator was engaged to clear each investigation location of underground services prior to the commencement of any intrusive works in these areas.

2.2 Soil Sampling

Experienced Meinhardt Environmental Scientists attended the Site on 9 September 2019 with a suitably qualified underground services locator to clear all proposed investigation locations of underground services, and between 9 and 11 September 2019 with a drilling contractor to drill 17 soil bores (**SBs**) of which three (3) were converted to GW MWs. Representative soil samples were collected from each of the 17 investigation locations which are illustrated in ***Attachment A, Figure 2***.

All locations were advanced using a track-mounted Geoprobe 7720DT drilling rig using a combination of push tube (**PT**) and solid flight auger (**SFA**) drilling methods to a maximum depth of 7.5 metres below ground level (**mbgl**), terminating in natural sandy clay soils.

Soil samples were collected directly from PT sleeves or the auger flights at discrete depths of approximately 0.2, 0.5, 1.0, 1.5, 2.0, 3.0 and 4.0 mbgl. Dedicated PT sleeves were used at each sampling location and where augers were used, they were decontaminated between sampling locations through a high pressure wash in tap water and scrubbing to remove loose soils. Care was taken to avoid collection of samples which had been in contact with equipment. In this way, the potential for cross-contamination of soil samples between locations was minimised.

All soil samples were handled using a dedicated clean pair of nitrile gloves to minimise the potential for cross-contamination between samples. Meinhardt also screened samples in the field using a handheld Photo Ionisation Detector (**PID**) fitted with a 10.2 eV lamp for the presence of volatile organic compounds (**VOCs**). A copy of the calibration certificate for the PID used is provided in ***Appendix B***.

All samples were placed directly into appropriate laboratory-supplied, clean sample jars. The samples were then labelled with site and location specific information and placed into a chilled ice chest (**Esky**).

The samples were couriered following the completion of the soil sampling works to the National Association of Testing Authorities (**NATA**) accredited Envirolab Services (**Envirolab**) laboratory for analysis in accordance with Chain of Custody (**CoC**) documentation. Duplicate samples were on-forwarded by Envirolab to ALS Environmental (**ALS**) for analysis with CoC documentation.

2.3 Groundwater Monitoring Well Installation

Following completion of drilling at each MW location, all drill rods were immediately removed from the bore and MW installation completed. An experienced Meinhardt environmental scientist informed and supervised the construction of each MW using 50 mm diameter Class 18 uPVC casing and a 0.4 mm slotted screens. The screens were surrounded by a graded sand filter pack to approximately 0.5 m above the top of screen, with a minimum 1.0 m bentonite seal above. Each MW was then completed to ground surface using a cement/grout mixture where it was fitted with a traffic-rated, flush mounted gatic cover to allow for normal ground operations to continue without the risk of damaging the MWs.

A plan showing the MW locations investigated at the Site is provided in ***Appendix A, Figure 2***.

Copies of the detailed well construction and soil bore logs prepared for each MW location are provided in ***Appendix C***.

As agreed with CAG, all excess spoil arising from the MW drilling works was evenly spread across the ground surface in the immediate vicinity of the locations drilled.

A summary of the installation details for the MWs drilled is provided in ***Table 2-1***.

Table 2-1 Groundwater Monitoring Well Installation Details

Monitoring Well	Total Well Depth (mbgl)	Bentonite Plug (mbgl)	Gravel Pack (mbgl)	Screened Interval (mbgl)	Formation Screened	Depth GW Encountered (mbgl)
CAG-CAT01-MW01 (converted CAG-CAT01-SB02)	6.7	1.2 – 2.2	2.2 – 6.7	2.7 – 6.7	Clayey SAND, Sandy CLAY	4.2
CAG-CAT01-MW02 (converted CAG-CAT01-SB06)	7.1	1.6 – 2.6	2.6 – 7.1	3.1 – 7.1	Sandy CLAY, Silty CLAY	3.7
CAG-CAT01-MW03 (converted CAG-CAT01-SB17)	7.6	2.1 – 3.1	3.1 – 7.6	3.6 – 7.6	Sandy CLAY	3.7

2.4 Monitoring Well Development

Experienced Meinhardt environmental scientists developed the three (3) newly installed MWs on 11 September 2019. This involved drawing out approximately three (3) well volumes of GW from each MW using a disposable bailer. The development process was completed to remove any silt and grit that may have accumulated within the well screens post installation and to promote the follow of representative GW into each MW prior to sampling. Well development details are provided in ***Table 2-2***.

Table 2-2 Monitoring Well Development Details

Monitoring Well	Volume Purged (L)	Water Description
CAG-CAT01-MW01	23.0	Brown, no odour or sheen, medium to high turbidity and sediment load initially reducing in turbidity and sediment load over time, as water was extracted.
CAG-CAT01-MW02	24.0	Brown, no odour or sheen, medium to high turbidity and sediment load initially reducing in turbidity to low to medium turbidity and low to no sediment load.
CAG-CAT01-MW03	20.0	Brown, no odour or sheen, medium to high turbidity and sediment load initially reducing in turbidity to low to medium turbidity with no sediment load.

2.5 Groundwater Monitoring Well Sampling

Following the completion of MW installation and development works, each MW was allowed to recharge for a period of three (3) weeks in order to allow GW conditions to return to an equilibrium state prior to completion of the GME which included all three (3) newly installed MWs.

A plan showing the MW locations included in the GME at the Site is provided in ***Appendix A, Figure 2***.

The GME was conducted at the Site on 2 October 2019, using low-flow sampling methodology as follows:

- Prior to sampling, each MW was gauged using an oil-water interface meter to determine the standing water level (**SWL**) and whether any non-aqueous phase liquids (**NAPL**) were present in the GW column;
- Once the SWL was established, GW was purged from each MW location by lowering and activating a submersible low flow MicroPurge pump and associated High Density Polyethylene (**HDPE**) sampling tubing into the water column to a depth that fell within the well screen (ideally at least 1 m below the top of the screen);
- As GW was purged from the MW, field parameters including pH, electrical conductivity (**EC**), dissolved oxygen (**DO**) and oxidation-reduction potential (**ORP**) were measured using a multi-parameter water quality meter. Once these parameters and the depth to GW stabilised (established by recording three (3) consecutive readings within acceptable stability limits), a representative GW sample was collected in appropriate laboratory supplied sampling bottles. A copy of the calibration certificate for the water quality meter and interface probe used is provided in ***Appendix C***;
- Following the collection of samples at each MW, the submersible pump was removed and disconnected from the sample tubing used to extract the GW sample. The tubing, pump bladder and in-line filter were disposed of off-site. The pump, flow cell and interface meter were decontaminated through the use of a three-stage decontamination process involving a LIQUI-NOX (a phosphate-free detergent) scrub, a rinse with tap water and final rinse using deionised water. LIQUI-NOX is currently the accepted industry standard for decontamination of equipment used for PFAS sampling; and
- New dedicated HDPE tubing and bladders were used for each well, and disposable nitrile gloves were worn at all times in order to minimise the potential for cross-contamination of samples.

All GW samples were labelled with Site and location specific information and placed into a chilled Esky. The samples were then delivered to Envirolab as the primary analytical laboratory for analysis in accordance with CoC documentation. Duplicate samples and CoC documentation were forwarded by Envirolab to ALS as the secondary analytical laboratory for analysis.

Both Envirolab and ALS are NATA accredited for the analysis completed.

3 Adopted Assessment Criteria

3.1 Soil Assessment

The ACT Government, Contaminated Sites Environment Protection Policy[5] (**EPP**) provides guidance on assessing, remediating and auditing of contaminated land resulting from activities that have caused or are likely to cause a significant risk of harm to human health and/or the environment. The Contaminated Sites EPP directly refers to the NEPM 2013 and is consistent with national guidance with respect to the assessment of contaminated sites. As such all contaminated site assessments in the ACT are to be undertaken in accordance with the NEPM 2013.

The NEPM 2013 provides assessment criteria for environmental values of land dependent on land use at the Site. Soil investigation criteria are detailed in the NEPM 2013 for the protection of human health and the environment, and they include:

- Ecological Screening Levels (**ESLs**) for petroleum hydrocarbons;
- Ecological Investigation Levels (**EILs**);
- Health Screening Levels (**HSLs**) for petroleum hydrocarbon compounds; and
- Health Investigation Levels (**HILs**).

The protected beneficial uses of land are dependent on land use. The Site has previously and is currently being used for commercial / industrial use. Therefore, the applicable protected beneficial uses of land for the Site are:

- Maintenance of Ecosystems;
- Human Health; and
- Buildings and Structures.

Where specific assessment criteria for soil are not present in NEPM 2013, or more relevant criteria are available (such as the Airports Regulations 1997), alternative criteria have been adopted in accordance with the hierarchy of acceptable assessment criteria as detailed in the NEPM 2013 to provide a robust assessment of the Site.

The criteria adopted for protection of applicable environmental values of soils at the Site are summarised in ***Table 3-1*** and are in line with previous works conducted across the wider Canberra Airport estate.

[5] ACT Government – Environment Protection Authority, *Contaminated Sites Environment Protection Policy*, December 2017.

Table 3-1 Adopted Screening Criteria - Soil

Realised Beneficial Use	Soil Quality Objective
Maintenance of Ecosystems	The adopted ecological assessment criteria principally apply to contaminants in the uppermost 2.0 m of soil in urban environments. The following NEPM 2013 ESLs have been adopted to assess potential environmental impacts to terrestrial flora and fauna ecosystems: **NEPM 2013** • EILs – Commercial / Industrial • ESLs – Commercial / Industrial land use (coarse soils) NEPM 2013 EILs have been calculated using site specific soil properties. Coarse soil matrix type was chosen for screening as the soils largely had a sandy or silty component, and a coarse soil matrix provides more stringent and conservative screening criteria. The following ESLs have been adopted to assess potential environmental impacts from PFAS to terrestrial flora and fauna ecosystems: **PFAS NEMP 2018** • Interim Soil – Ecological Direct Exposure (Public Open Space) • Interim Soil – Ecological Indirect Exposure (Industrial/ Commercial) The PFAS NEMP states that *"in the absence of acceptable published guideline values for direct exposure, the Soil Criteria- Human Health are recommended as an interim position."* Specifically, the guidance recommends the guidance for Public Open Space be adopted for direct exposure pathways. For indirect exposure, the criteria for Industrial and Commercial land use have been derived and are adopted for the Site.
Human Health	The following investigation levels have been adopted to assess for potential impact to human health from the presence of contaminants of potential concern in sub-surface soils. Specific airports criteria have been adopted for the Site in addition to those specified in NEPM 2013 and PFAS NEMP 2018. The criteria adopted include: **NEPM 2013** • HILs – Commercial / Industrial (HIL-D); and • HSLs – Commercial / Industrial (HSL-D) Coarse soil matrix type was chosen for screening as the soils largely had a sandy or silty component, and a coarse soil matrix provides more stringent and conservative screening criteria. **Airports Regulations 1997** • Soil Pollution – Accepted Limits (Areas of an Airport generally) **PFAS NEMP 2018** • Health Screening Values (Industrial/ Commercial)
Buildings and Structures	The Contaminated Sites EPP refers to the impacts contaminated land can have on the integrity of structures or buildings materials. To assess the potential impact on the buildings and structures beneficial use, the following guideline is adopted: **Standards Australia, *AS2159-2008 Australian Standard – Piling Design and Installation*, 2008 (AS2159-2008).**

3.1.1 Derivation of Site-Specific Ecologic Investigation Levels

The NEPM 2013 suggests that risks to terrestrial ecosystems be assessed by developing and applying site-specific EILs. The EIL criteria in NEPM 2013 have been developed for three generic land use settings including areas of Ecological Significance, Urban Residential/Public Open Space and Commercial/Industrial land uses.

As the Site is not currently in an area designated as being of ecological significance (such as a national or state park, wilderness area, or wetland) or being developed for urban residential or public open space land use, site-specific criteria were derived only for:

- Commercial and industrial land uses.

The EILs were derived in line with NEPM 2013 Tables 1B(1) to 1B(5), using the soil physiochemical properties of pH, cation exchange capacity (**CEC**), clay content (% clay) and total organic carbon (%

organic carbon) to inform the calculation of site specific criteria for aged contamination (as any soil impact at the Site was considered likely to have occurred more than two (2) years prior to the assessment of soils completed in this investigation). The EILs derived for the Site are summarised in ***Table 3-2***.

Table 3-2 Site Specific EIL Criteria – Soil

Analyte	Commercial/Industrial	
	Fill Soils	***Natural Soils***
Arsenic (mg/kg)	160	160
DDT (mg/kg)	640	640
Naphthalene (mg/kg)	370	370
Lead (mg/kg)(5)	1,800	1,800
Copper (mg/kg)(1,2,4)	320	150
Nickel (mg/kg)(1)	380	580
Chromium^{III} (mg/kg)(3)	980	1,100
Zinc (mg/kg)(1,2)	990	1,500

Notes
Average Background Concentrations (**ABCs**) for the analytes listed above were calculated by averaging the concentrations reported in soils logged to be fill and natural soils, respectively.

Added Contaminant Limits (ACLs) were calculated using Tables 1B(1) to 1B(4) in NEPM 2013, making use of the following information:
[1] Average soil CEC (Fill Soils 7.25) (Natural Soils 28.0).
[2] Average soil pH (Fill Soils 7.98) (Natural Soils 8.08).
[3] Average % clay (Fill Soils 31.25) (Natural Soils 43.5).
[4] Average % organic carbon (Fill Soils 0.52) (Natural Soils 0.11).
[5] ACLs as defined in Table 1B(4).
The soil EILs for Arsenic, DDT and Naphthalene were adopted from Table 1B(5) of NEPM 2013.

3.2 Groundwater Assessment

The ACT Government, Water Quality EPP provides guidance for the protection of water resources throughout the ACT. The Water Quality EPP directly references the ACT Water Quality Standards provided in Schedule 4 of the EP Regulation 2005. These water quality standards are grouped under environmental values which relate to the beneficial uses of water.

The environmental values to be protected under Schedule 4 of the EP Regulation 2005 are:

- Domestic Water Supply;
- Aquatic Habitat (Maintenance of Ecosystems);
- Irrigation Water Supply;
- Stock water Supply;
- Water Based Recreation Swimming or Boating; and
- Waterscape (Aesthetics).

As the Site is part of the wider Canberra Airport Estate and considering nearby land use, the environmental values to be protected include:

- Aquatic Habitat (Maintenance of Ecosystems);
- Irrigation Water Supply;
- Water Based Recreation - Swimming or Boating; and
- Waterscape (Aesthetics).

The Water Quality EPP states where no guidance value is specified in the EP Regulation 2005, suitable criteria are to be adopted, such as the ANZECC, *Australian Water Quality Guidelines for Fresh and*

Marine Waters, 2000 (**ANZECC 2000**), as to provide a comprehensive assessment of potential impacts to GW.

The criteria adopted for protection of applicable environmental values of GW at the Site are summarised in ***Table 3-3*** and are in line with previous works conducted across the wider Canberra Airport estate.

Table 3-3 Adopted Screening Criteria – Groundwater

Environmental Values	Groundwater Quality Objective
Aquatic Habitat (Maintenance of Ecosystems)	The following water quality objectives apply at the point of discharge of GW to surface water: **PFAS NEMP** • Freshwater Ecosystems (95% Protection) The PFAS NEMP 95% protection ecological screening criteria for slightly to moderately disturbed systems have been adopted as a conservative measure due to the bioaccumulative properties of PFAS in the environment **NEPM 2013** • Groundwater Investigation Levels (**GILs**) – Fresh waters **Airports Regulations 1997** • Water pollution – Accepted Levels (for Fresh Water) **ANZECC 2000** • Freshwater (95% Species Protection) The ANZECC 2000 95% protection ecological screening criteria has been adopted as the Site can be classified as slightly to moderately disturbed, as a conservative measure.
Irrigation Water Supply	The following guidelines applies to GW that is being extracted for irrigation purposes: **ANZECC 2000** • Irrigation – Short Term Values
Water Based Recreation (swimming or boating)	The following water quality objectives apply at the point of discharge of GW to surface water: **PFAS NEMP** • Health Based Guidance Value - Recreational Water[6] **ADWG 2018** • Drinking Water Guidelines Corrected for Primary Contact Recreation (**PCR**) (Criteria multiped by a factor of 10 for non-volatile compounds) The National Health and Medical Research Council, *Guidelines for Managing Risks in Recreational Water,* 2008 (**NHMRC 2008**) are used to assess recreational water quality and aesthetics. The guidelines adopt the National Health and Medical Research Council, *Australian Drinking Water Guidelines,* 2004 (**ADWG 2004**). However, as a measure of best practice, this report adopts the superseding document National Health and Research Council, *Australian Drinking Water Guidelines 6,* 2018 (**ADWG 2018**).
Waterscape (Aesthetics)	The following water quality objectives apply at the point of discharge of GW to surface to assess impacts on surface water aesthetics: **ADWG 2018** • Aesthetics
Human Health - GW Criteria for Soil Vapour	The following health-based investigation levels have been adopted for the Site to assess potential impacts from hydrocarbons to human health through vapour intrusion: **NEPM 2013** • Groundwater HSLs – HSL D- Commercial / Industrial use

[6] Meinhardt is aware of the National Health and Medical Research Council, *Guidance on Per and Polyfluoroalkyl substances (PFAS) in Recreational Water*, August 2019 addendum to the ADWG and the change to guidance value of 2.0 µg/L PFHxS and PFOS from 0.7 µg/L in recreational waters, however this has not been adopted for the current assessment as the PFAS NEMP is seen as the most appropriate reference for PFAS impacts to soils and GW.

4 Field Observations

4.1 Generalised Soil Profile

During the soil investigation the experienced Meinhardt Environmental Scientists recorded detailed information for the soil profile at each SB and MW location. Copies of the SB and MW logs for each location are provided in ***Appendix C*** and ***Table 4-1*** provides a generalised summary of the soil profile beneath the Site.

Table 4-1 Generalised Soil Profile

Depth Range (mbgl)	Fill / Natural	Soil Description
0.0 – 0.7	FILL	CLAYEY SILT and SILT – pale orange brown, pale brown, brown and pale yellow with occasional fine to medium gravels.
0.4 – 1.5	NATURAL	SILTY CLAY and Clayey SILT – orange brown, brown with occasional yellow, black and red mottling, low to medium plasticity.
1.2 – 2.2	NATURAL	CLAY – orange to brown with red to orange mottling throughout, traces of black mottles, medium plasticity.
2.1 – 2.3	NATURAL	SANDSTONE – Pale grey to brown
2.1 – Depth not Proven	NATURAL	Sandy CLAY and CLAY– pale grey, dark brown and brown with orange, red and black mottling, medium plasticity and stiff. Fine to medium sands.

4.2 Visual and Olfactory Observations

No visual and/or olfactory indicators of soil contamination were noted by the experienced Meinhardt Environmental Scientists during the soil assessment works conducted at the Site.

During the soil assessment PID readings from soils samples from the Site were typically at 0.0 ppm. A calibration certificate for the PID used in included in ***Appendix B***.

4.3 Groundwater Observations and Physical Parameters

Water quality parameters were recorded for each of the monitoring locations sampled as part of the GME, with readings taken during purging and prior to sampling on 2 October 2019. ***Table 4-2*** provides a summary of the results of field monitoring conducted at the Site, with copies of field records provided in ***Appendix D***.

Table 4-2 Groundwater Physical Parameters

Location	Date	Temp (˚C)	pH	EC (µS/cm)	Calculated TDS (ppm)	ORP (mV)	DO (mg/L)
CAG-CAT01-MW01	02/10/2019	17.0	7.35	986	641	-21	4.27
CAG-CAT01-MW02		16.3	7.41	1416	920	-85	4.27
CAG-CAT01-MW03		16.7	7.42	1338	870	-89	1.49

Notes
Temp = Temperature EC = Electrical Conductivity
TDS = Total Dissolved Solids (calculated using the formula TDS = EC × 0.65)
ORP = Oxidation-Reduction Potential DO = Dissolved Oxygen

Based on the information summarised in ***Table 4-2***, GW beneath the Site is:

- Neutral in pH, representative of GW ranging from pH 7.35 to 7.42;
- Slightly reducing, with ORP values of -21 to -89 mV;
- Slightly to moderately oxic with DO concentrations between 1.49 and 4.27 mg/L; and
- Slightly brackish with EC ranging from 986 to 1,416 µS/cm.

Each of the MWs were surveyed on 13 September 2019 to provide easting and northings based on the Geocentric Datum of Australia 1994 (**GDA94**) projection, Map Grid of Australia Zone 55 (**MGA Zone 55**)

co-ordinate system and a relative elevation based on the Australian Height Datum (**AHD**) for the top of casing (**TOC**). A copy of the surveyor's report is provided in ***Appendix E***.

The survey data was used to determine the relative level of GW across the Site and to infer the likely GW flow direction. The survey data and relative levels for each new MW location are summarised in ***Table 4-3***.

Table 4-3 Groundwater Monitoring Well Locations and Standing Water Levels (2 October 2019)

Location	Easting (MGA94 Z55)	Northing (MGA94 Z55)	Depth to water (mbTOC)	Top of casing (mAHD)	Corrected SWL (mAHD)
CAG-CAT01-MW01	699012.776	6091684.28	4.375	565.389	561.014
CAG-CAT01-MW02	698975.835	6091646.25	4.068	564.921	560.853
CAG-CAT01-MW03	699012.382	6091575.53	4.229	564.983	560.754

Notes
mbTOC = metres below top of casing mAHD = metres Australian Height Datum

Based on the SWLs measured at each bore, the overall GW flow beneath the Site is inferred to flow toward the south-west, with an inferred hydraulic gradient of 0.003 (a change of 0. 161 m over a 53 m distance parallel to flow from CAG-CAT01-MW01 to CAG-CAT01-MW02).

An inferred GW flow direction contour plan for the Site is provided in ***Appendix A, Figure 3***.

5 Sample Analysis

5.1 Soil

A total of 136 soil samples (comprising 122 primary soil samples, seven (7) field duplicate samples and seven (7) field split samples) were collected and sent for analysis from the 17 SBs advanced across the Site as part of the soil assessment works. ***Table 5-1*** provides a summary of the soil samples selected from the Site and the analyses scheduled for them.

Table 5-1 Soil Samples and Analytical Schedule

Location	Sample Depths (mbgl)		Sampled Date	Laboratory Analysis
Primary Samples				
CAG-CAT01-SB01	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		09/09/2019	24 x EPA NSW 2014 Table 1 [A] 122 x PFAS Extended Suite [B] 122 x Leachable PFAS [C] 98 x TRH, BTEXN, PAH & Metals [D] 9 x Asbestos (Absence/Presence) [E] 8 x NEPM Soil Classification Suite [F]
CAG-CAT01-SB02	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 7.0		09/09/2019	
CAG-CAT01-SB03	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		09/09/2019	
CAG-CAT01-SB04	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		09/09/2019	
CAG-CAT01-SB05	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		09/09/2019	
CAG-CAT01-SB06	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 6.0		10/09/2019	
CAG-CAT01-SB07	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB08	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB09	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB10	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB11	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB12	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB13	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB14	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		10/09/2019	
CAG-CAT01-SB15	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		11/09/2019	
CAG-CAT01-SB16	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0		11/09/2019	
CAG-CAT01-SB17	0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 6.0		11/09/2019	
QA/QC Samples				
CAG-CAT01-SB01	1.5	FD01 & FS01	09/09/2019	14 x PFAS Extended Suite 14 x Leachable PFAS 14 x TRH, BTEXN, PAH & Metals 2 x Asbestos (Absence/Presence)
CAG-CAT01-SB04	1.0	FD02 & FS02	09/09/2019	
CAG-CAT01-SB07	0.5	FD03 & FS03	10/09/2019	
CAG-CAT01-SB10	0.2	FD04 & FS04	10/09/2019	
CAG-CAT01-SB12	4.0	FD05 & FS05	10/09/2019	
CAG-CAT01-SB15	3.0	FD06 & FS06	11/09/2019	
CAG-CAT01-SB17	4.0	FD07 & FS07	11/09/2019	
Trip Blank	CAG-CAT01-TB01		11/09/2019	TRH C_6-C_{10}/BTEXN

Notes

[A] EPA NSW 2014 Table 1: Total Recoverable Hydrocarbons (**TRH**), Polycyclic Aromatic Hydrocarbons (**PAH**), Phenols, Organochlorine Pesticides (**OCP**), Organophosphorus Pesticides (**OPP**), Herbicides, Polychlorinated Biphenyls (**PCB**), VOC, Vinyl Chloride, Metals (As, Cd, Cr (total), Cr6+, Cu, Ni, Pb, Hg, Ag, Sn, Mo, Se, Zn) and Cyanide (no Phthalates or Fluoride).

[B] PFAS Extended Suite: 4:2 Fluorotelomer Sulfonate (**4:2 FtS**), 6:2 Fluorotelomer Sulfonate (**6:2 FtS**), 8:2 Fluorotelomer Sulfonate (**8:2 FtS**), 10:2 Fluorotelomer Sulfonate (**10:2 FtS**), Perfluorobutanoic Acid (**PFBA**), Perfluorobutane sulfonic acid (**PFBS**), Perfluoroheptanoic acid (**PFHpA**), Perfluorohexanoic Acid (**PFHxA**), Perfluorooctanoic Acid (**PFOS**), Perfluorooctane Sulfonic Acid (**PFOA**), Perfluorohexanesulfonic Acid (**PFHxS**), Perflouropentanoic acid (**PFPeA**) as well as 16 common PFAS.

[C] Leachable PFAS: Leachable concentrations of all 28 PFAS included in the PFAS Extended Suite

[D] Metals: As, Cd, Cr (total), Cu, Ni, Pb, Hg, Ag, Sn, Mo, Se and Zn.

[E] Asbestos (Absence/Presence): Analysis determines absence or presence of asbestos fibres (qualitative result) – taken only in the uppermost 0.5 m of the soil profile to assess for potential surface contamination with ACM.

[F] NEPM Soil Classification Suite: Iron, Cation Exchange Capacity (**CEC**), pH($CaCl_2$), Total Organic Carbon (**TOC**), Clay Content.

5.2 Groundwater

A total of five (5) GW samples (comprising three (3) primary GW samples, one (1) field duplicate sample and one (1) field split sample) were collected and sent for analysis from the three (3) MWs advanced across the Site as part of the GW assessment works.

Table 5-2 provides a summary of the GW samples collected from the Site and the analyses scheduled for them.

Table 5-2 Groundwater Samples and Analytical Schedule

Location	Sample ID	Sampled Date	Laboratory Analysis
Primary Samples – Groundwater			
CAG-CAT01-MW01	CAG-CAT01-MW01	01/10/2019	pH, TDS, 15 Metals, TRH, BTEXN, PAH, Major Anions & Cations, PFAS Long Suite
CAG-CAT01-MW02	CAG-CAT01-MW02	01/10/2019	
CAG-CAT01-MW03	CAG-CAT01-MW03	01/10/2019	
QA/QC Samples			
Rinsate Samples	CAG-CAT01-GW-RB01	01/10/2019	Metals, TRH, BTEXN, PAH
Trip Blanks	CAG-CAT01-GW-TB01	01/10/2019	TRH C_6-C_9/BTEXN

Notes
TDS: Total Dissolved Solids
15 Metals: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Hg, Ni, Se, Ag, Tl and Zn

6 Results

The results of analysis of samples collected from the Site were screened against the adopted screening criteria detailed in ***Section 3***. The results of this assessment are summarised in the following sections, with summary analytical tables included in ***Appendix F***. Laboratory issued analytical reports for the soil and GW samples collected are included in ***Appendix G***.

6.1 Soil

There were no reported exceedances of the adopted ecological, human health or buildings and structures screening criteria for soil samples collected from the Site.

6.2 Groundwater

6.2.1 Ecological

A total of 16 exceedances of the adopted ecological screening criteria for GW were reported in samples collected from the Site including three (3) for PFAS and 13 for metals, as summarised in ***Table 6-1***.

Table 6-1 Groundwater Exceedances – Ecological Criteria

Location	Analyte	Concentration (mg/L)	Criterion (mg/L)	Criterion Exceeded
CAG-CAT01-MW01	PFOS	1.1[1]	0.13[1]	PFAS NEMP – Freshwater 95% Species Protection Guidance Value
	Al	0.43	0.055	ANZECC 2000 FW 95% Species Protection
				NEPM 2013 GILs Freshwaters
			0.1	Airports (Environment Protection) Regulations 1997 - Freshwater
CAG-CAT01-MW02	PFOS	0.79[1]	0.13[1]	PFAS NEMP – Freshwater 95% Species Protection Guidance Value
CAG-CAT01-MW03	PFOS	2.2[1]	0.13[1]	PFAS NEMP – Freshwater 95% Species Protection Guidance Value
	Al	0.83	0.055	ANZECC 2000 FW 95% Species Protection
				NEPM 2013 GILs Freshwaters
			0.1	Airports (Environment Protection) Regulations 1997 - Freshwater
	Cu	0.003	0.0014	ANZECC 2000 FW 95% Species Protection
				NEPM 2013 GILs Freshwaters
			0.002	Airports (Environment Protection) Regulations 1997 - Freshwater
	Pb	0.001	0.001	Airports (Environment Protection) Regulations 1997 - Freshwater
	Zn	0.009	0.005	Airports (Environment Protection) Regulations 1997 - Freshwater
			0.008	ANZECC 2000 FW 95% Species Protection
				NEPM 2013 GILs Freshwaters

Notes
[1] Concentration reported in µg/L

6.2.2 Irrigation

A total of four (4) exceedances of the adopted irrigation screening criteria for GW were reported in samples collected from the Site, all for inorganics, as summarised in ***Table 6-2***.

Table 6-2 Groundwater Exceedances – Irrigation Criteria

Location	Analyte	Concentration (mg/L)	Criterion (mg/L)	Criterion Exceeded
CAG-CAT01-MW01	Sodium	120	115	ANZECC 2000 Irrigation Short Term Values
CAG-CAT01-MW02	Chloride	250	175	
	Sodium	140	115	
CAG-CAT01-MW03	Sodium	160	115	

6.2.3 Water Based Recreation

A total of three (3) exceedances of the adopted water based recreation screening criteria for GW were reported in samples collected from the Site, all for PFAS, as summarised in ***Table 6-3***.

Table 6-3 Groundwater Exceedances – Water Based Recreation Criteria

Location	Analyte	Concentration (µg/L)	Criterion (µg/L)	Criterion Exceeded
CAG-CAT01-MW01	Sum of PFHxS and PFOS	2.0	0.7	PFAS NEMP 2018 – Health Based Guidance Value - Recreational Water
CAG-CAT01-MW02		1.5		
CAG-CAT01-MW03		4.8		

6.2.4 Aesthetics

A total of five (5) exceedances of the adopted water based recreation screening criteria for GW were reported in samples collected from the Site, three (3) for inorganics and two (2) for metals, as summarised in ***Table 6-4***.

Table 6-4 Groundwater Exceedances – Aesthetics Criteria

Location	Analyte	Concentration (mg/L)	Criterion (mg/L)	Criterion Exceeded
CAG-CAT01-MW01	Fe	0.33	0.30	ADWG 2018 Aesthetic
CAG-CAT01-MW02	TDS	810	600	
	Chloride	250	250	
CAG-CAT01-MW03	TDS	760	600	
	Fe	0.64	0.30	

6.2.5 Human Health – Vapour Intrusion

There were no exceedances of the adopted human health groundwater screening criteria for vapour intrusion (NEPM 2013) in samples collected from the Site.

6.3 QA/QC Assessment

A total of 19 Quality Assurance / Quality Control (**QA/QC**) samples were collected during the soil and GW assessment work completed at the Site. The samples collected and analysed comprised:

- 14 soil duplicate samples, comprising seven (7) field duplicates (FD01 to FD07) and seven (7) field split duplicates (FS01 to FS07);
- Two (2) GW duplicate samples, comprising one (1) field duplicate (GW-FD01) and one (1) field split duplicate (GW-FS01);
- One (1) rinsate sample (CAG-CAT01-GW-RB01); and
- Two (2) trip blank samples (CAG-CAT01-TB01 and CAG-CAT01-GW-TB01).

The QA/QC samples were collected and analysed to provide a measure of reliability of the analytical data set obtained from the soil assessment.

6.3.1 Field Duplicate and Split Duplicate Samples

Relative Percentage Difference (**RPD**) calculations were performed on each primary and duplicate sample pair to quantitively measure the accuracy of results obtained. Each duplicate sample (field and split) was compared against the measured concentration for each analyte in the corresponding primary sample.

The RPDs were calculated for each duplicate pair using the following formula:

$$RPD = \frac{C_1 - C_2}{\left(\frac{C_1 + C_2}{2}\right)} \times 100$$

Where:
C1 = Concentration of analyte in primary sample;
C2 = Concentration of analyte in duplicate sample; and
RPD = Relative Percentage Difference between the primary and secondary sample.

An RPD of up to 30 – 50 % is generally considered acceptable (based on AS4482.1-2005). For this assessment, the RPD criteria ranges adopted are listed in ***Table 6-5***. The results of the RPD assessment have been included in ***Appendix G***.

Table 6-5 Acceptable RPD Ranges

Limit of Reporting (LoR) Ranges	RPD Range Adopted
<10 × LoR	0 – 80 %
10 × LoR < 30 × LoR	0 – 50 %
> 30 × LoR	0 – 30 %

A total of 18 RPDs for soil samples were reported above the limits of acceptance and are presented in ***Appendix G*** and summarised in ***Table 6-6***.

Table 6-6 RPD Exceedances - Soil

Primary Sample	Duplicate Sample	Analyte	Primary Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD (%)
CAG-CAT01-SB01-1.5	FS01	Benzo(a)pyrene TEQ	<0.5	1.2	82
CAG-CAT01-SB04-1.0	FS02	Benzo(a)pyrene TEQ	<0.5	1.2	82
CAG-CAT01-SB07-0.5	FD03	PFHxS (Leachable)	0.06[1]	0.15[1]	86
		Sum of PFAS (Leachable)	0.06[1]	0.15[1]	86
	FS03	PFHxS (Leachable)	0.06[1]	0.14[1]	80
		Sum of PFAS (Leachable)	0.06[1]	0.23[1]	117
		Pb	9.0	23[1]	88
		Benzo(a)pyrene TEQ	<0.5	1.2	82
CAG-CAT01-SB10-0.2	FS04	Sum of PFAS (Leachable)	0.26[1]	0.58[1]	76
		As	<4	11	83
		Ni	11	31	95
		Benzo(a)pyrene TEQ	<0.5	1.2	82
CAG-CAT01-SB12-4.0	FS05	Benzo(a)pyrene TEQ	<0.5	1.2	82
CAG-CAT01-SB15-3.0	FD06	Pb	7	12	53
	FS06	Benzo(a)pyrene TEQ	<0.5	1.2	82
CAG-CAT01-SB17-4.0	FD07	Pb	12	23	63
	FS07	Pb	12	25	70
		Benzo(a)pyrene TEQ	<0.5	1.2	82

Notes
[1] Concentration reported in µg/L
TEQ: Toxicity Equivalent Quotient
Benzo(a)pyrene TEQ (LOR) is the sum total of the concentration of eight (8) carcinogenic Polycyclic Aromatic Hydrocarbons (**PAHs**) multiplied by their Toxicity Equivalence Factor (**TEF**) as required in NEPM 2013.

The field duplicate RPD exceedances noted for leachable PFAS and lead were considered to be attributable to either the primary sample or duplicate sample being reported near to or below laboratory detection limits (within 1 order of magnitude of the LoR). At this concentration level, there is uncertainty in any detectable concentration and as such, it is not considered to be significant.

The split duplicate RPD exceedances noted for benzo(a)pyrene, leachable PFAS, arsenic, lead and nickel were considered likely to be attributable to the use of different analytical laboratory methods utilised by Envirolab and ALS.

As a conservative measure the higher result, whether it be from a primary or duplicate sample, was adopted for this soil assessment.

A total of two (2) RPDs for GW samples were reported above the limits of acceptance and are presented in ***Appendix G*** and summarised in ***Table 6-7***.

Table 6-7 RPD Exceedances

Primary Sample	Duplicate Sample	Analyte	Primary Concentration (mg/L)	Duplicate Concentration (mg/L)	RPD (%)
CAG-CAT01-MW01	GW-FD01	Al	0.43	0.2	73
		Fe	0.33	0.12	93

The field duplicate RPD exceedances noted for aluminium and iron were considered to be attributable to either the primary sample or duplicate sample being reported at or below laboratory detection limits.

As a conservative measure the higher result, whether it be from a primary or duplicate sample, was adopted for this GW assessment.

6.3.2 Rinsate Samples

Rinsate samples are collected to assess the potential for cross-contamination of GW samples between locations due to ineffective or incomplete decontamination of sampling equipment. Rinsate samples are collected using laboratory supplied deionised water which is run over a section of the sampling equipment (following decontamination) and collected in laboratory supplied bottles.

One (1) rinsate sample was collected during the GW monitoring conducted at the Site.

The results from the analysis of the rinsate samples during the GW monitoring indicated that all analytes were reported at concentrations below the laboratory LoRs, with the exception of three (3) results presented in ***Table 6-8***.

Table 6-8 Rinsate Detections

Rinsate ID	Sample Date	Analyte	LoR	Result
CAG-CAT01-GW-RB01	02/10/2019	Al	0.01	0.039
		Fe	0.01	0.017
		Zn	0.001	0.001

The marginal detections for aluminium, iron and zinc we either at the laboratory limit or marginally above it. Furthermore, all concentrations were lower than any relevant screening criteria for GW and therefore, it is considered unlikely that any cross-contamination occurred between sampling locations.

6.3.3 Trip Blank Samples

Trip blank samples are vials of deionised water that are placed into the eskies during soil sample storage and transport to indicate whether cross contamination occurs during sample handling and transport to the analytical laboratory.

A total of two (2) trip blanks were prepared and transported with the samples as part of the soil and GW assessment completed at the Site.

Analytical results for all trip blank samples reported no detectable contaminants, indicating that cross-contamination of samples during handling and transportation was unlikely to have occurred.

6.3.4 Laboratory QA/QC

Sample Holding Times

All soil and GW samples were submitted and tested by the relevant laboratories within the maximum allowable holding times as detailed in the NEPM 2013 and AS4482.1-2005, with the exception of four (4) results presented in ***Table 6-8***.

Table 6-9 Sample Holding Time Exceedances

Lab	Sample	Analyte	Due for Analysis	Date Analysed
Envirolab	CAG-CAT01-MW01	pH	Not Specified	04/10/2019
	CAG-CAT01-MW02			
	CAG-CAT01-MW03			
	GW-FD01			

The four (4) holding time breaches pertain to the GW samples which were sent to Envirolab Melbourne for analysis and were due to the time required to transport the GW samples from the Site to the analytical laboratory. These four (4) holding time breaches for pH are unlikely to affect the reliability of the data set obtained from the soil and GW assessment works and field pH measurements were also collected to support the results obtained from laboratory analysis.

Laboratory Control Spike Recoveries

Both laboratories (Envirolab and ALS) conducted laboratory control spike analyses on the samples submitted to them, with both reporting that all laboratory spike recoveries were within acceptable ranges.

Matrix Spike Recoveries

Both laboratories conducted matrix spike analyses on selected samples submitted to them. All matrix spike recoveries were reported by both laboratories to be within acceptable ranges, with the exception of 12 results presented in ***Table 6-10***.

Table 6-10 Matrix Spike Recoveries Exceedances

Lab	Sample ID	Analyte	Reason Given
Envirolab	CAG-CAT01-SB02-4.0	Fe	Recovery not possible due to high concentrations
	CAG-CAT01-SB03-0.5	Total Cyanide	Matrix Interference
	CAG-CAT01-SB05-2.0	Chrysene	Matrix Interference
	CAG-CAT01-SB05-2.0	Fluorene	Matrix Interference
	CAG-CAT01-SB05-3.0	Fe	Recovery not possible due to elevated Fe concentration
	CAG-CAT01-SB05-3.0	Mo	Matrix Interference
	CAG-CAT01-SB08-2.0	Fe	Recovery not possible due to elevated Fe concentration
	CAG-CAT01-SB11-2.0	Mo	Matrix Interference
	CAG-CAT01-SB12-0.2	Fe	Recovery not possible due to elevated Fe concentration
	CAG-CAT01-SB15-4.0	Fe	Recovery not possible due to elevated Fe concentration
	CAG-CAT01-SB17-1.5	Total Cyanide	Matrix Interference
	FD04	Fe	Recovery not possible due to elevated Fe concentration

Six (6) matrix spike recovery exceedances for total cyanide, chrysene, fluorene and molybdenum were attributed to matrix interference. An acceptable laboratory control spike recovery was reported for each of these analytes. Given the amount of soils scheduled for analysis and their relative homogeneity, these matrix spike exceedances are not considered to affect the reliability of the data set obtained from this soil and GW assessment.

The elevated background concentration of iron in six (6) samples meant that the lab did not perform matrix spike analyses on these sample and reported it as a ‘fail’. However, these are technicalities rather than true matrix spike recovery ‘fails’, as no matrix spike could be completed on this sample. Therefore, this is not considered to affect the reliability of the data set obtained from this soil and GW assessment.

Method Blanks

Both laboratories conducted method blank analyses on selected samples submitted to them, with both reporting that method blank analyses results were below the respective laboratory LoRs and therefore acceptable.

Laboratory Duplicates

Both laboratories conducted internal laboratory duplicate testing on selected samples submitted to them, with both reporting that the results of laboratory duplicate analyses were within acceptable RPD ranges, with the exception of nine (9) results presented in ***Table 6-11***.

Table 6-11 Laboratory Duplicate RPD Exceedances

Lab	Lab ID Number	Sample ID	Analyte	RPD (%)
Envirolab	18085-12	CAG-CAT-SB02-2.0	Ni	42
	18085-62	CAG-CAT-SB09-3.0	Pb	67
	18085-62	CAG-CAT-SB09-3.0	Ni	50
	18085-73	CAG-CAT-SB11-1.0	Pb	40
	18086-14	CAG-CAT-SB13-2.0	Ni	58
	18086-29	CAG-CAT-SB15-3.0	Pb	60
	18086-46	FD02	Ni	40
	18086-55	CAG-CAT01-SB17-6.0	Pb	67
	18086-55	CAG-CAT01-SB17-6.0	Ni	67

However, given the large number of soil samples scheduled for analysis and that both laboratories met the minimum frequency requirement for internal duplicate analysis, these nine (9) RPD exceedances are not considered to affect the reliability of the data set obtained from this soil assessment.

6.3.5 Summary

Overall, while there were a limited number of identified issues, these were not considered to be significant with regard to the QA/QC data set. Overall the data obtained from analysis of soil samples collected and analysed is therefore considered to be representative and that the results are both accurate and reliable for the purposes of the soil and GW assessment conducted at the Site.

7 Discussion

7.1 Soil

7.1.1 Ecological

There were no reported exceedances of the adopted ecological screening criteria for soils sampled from the Site.

Therefore, it is considered unlikely that the soils beneath the Site pose a significant risk to on-site ecological receptors.

7.1.2 Health

There were no reported exceedances of the human health screening criteria adopted for soils sampled from the Site.

Therefore, it is considered unlikely that the soils beneath the Site pose a significant risk to human health in the current and future proposed land use scenario.

7.1.3 Buildings and Structures

There were no reported exceedances of the adopted buildings and structures screening criteria for soils sampled from the Site.

Therefore, it is considered unlikely that the soils beneath the Site pose a significant risk to any footings or building penetrations into the soil at the Site.

7.1.4 PFAS

No exceedances of the adopted PFAS NEMP 2018 human health or ecological screening criteria for the Site were noted for PFAS in soils sampled at the Site.

While no exceedances were noted, detectable concentrations of PFAS (both total and leachable) were reported in all 17 investigation locations. These detections were generally in fill soil samples taken from across the Site.

The reason for the presence of detectable PFAS in soils at these locations is not immediately apparent.

While concentrations of PFAS were below the adopted PFAS NEMP 2018 human health or ecological screening criteria, should those soils with detectable PFAS need to be disturbed or removed from Site during future development at the Site, they should be categorised in line with relevant waste classification guidance and disposed accordingly.

7.1.5 Asbestos

No ACM was detected in the samples analysed from the soil assessment and no visual evidence of suspected ACM was noted during the soil assessment works. Therefore, soil at the Site is considered to be free of ACM and suitable for off-site disposal in accordance with the applicable waste classification based on chemical analysis, should it require to be removed from the Site.

7.2 Groundwater

7.2.1 Ecological

A total of 16 exceedances of the adopted ecological screening criteria for GW were reported in samples collected from the Site, comprising a total of three (3) for PFAS and 13 for a range of metals.

In the absence of on-site aquatic habitats, the nearest ecological receptor to the Site (in the direction of GW flow) is the Molonglo River located approximately 1.2 km to the south west of the Site.

PFAS

PFAS have been historically used in a wide range of products such as plastics, clothing, Teflon finishes and Aqueous Film-Foaming Foam (**AFFF**) Class B firefighting foams used to extinguish liquid hydrocarbon fires.

The most obvious source for PFAS impacts to GW at the Site are considered to be the Aviation Rescue and Firefighting (**ARFF**) activities that are understood to have occurred at the Airport in areas around

the Fire Station (**FS**) and Fire Training Ground (**FTG**), located in the south eastern and north eastern parts of Canberra Airport, respectively.

While exceedances of the adopted ecological screening criteria were reported in GW beneath the Site, it must be noted that the adopted ecological criteria are inherently conservative as a result of PFAS persistence in the environment, bioaccumulative properties and potential toxicity (PFAS NEMP 2018). Additionally, as PFAS are water soluble, they are significantly more mobile than other contaminants. As such, and due to the proximity of the Site to Molonglo River, the elevated concentrations of PFAS in GW may pose a risk to down-gradient ecological receptors.

Metals

A total of 13 exceedances of the adopted ecological criteria were noted for aluminium, copper, lead and zinc.

The marginal exceedances of the adopted ecological criteria for these metals are considered likely to be naturally occurring as they are generally consistent across the Site. However, some may be attributable to historical and current land use and associated recent land development (e.g. importation of fill material). As such, while there may be a risk to ecological receptors down-gradient of the Site, they are no considered likely to be significant due to the mixing of groundwater sources at the point of discharge and the potential natural source of metals in GW.

7.2.2 Irrigation

A total of four (4) exceedances of the adopted irrigation screening criteria for GW were reported in samples collected from the Site, all for sodium and/or chloride. This is reflective of the slightly saline nature of GW beneath the Site and surrounds and is therefore not considered to be suitable for irrigation, especially in relation to irrigation for produce as crops may be at risk of foliar injury if irrigated using GW. However, ultimately this depends on the sensitivity of various crops to sodium and chloride.

Given the Site is proposed to be developed for commercial purposes, it is considered unlikely that GW will be extracted for irrigation.

PFAS

PFAS was reported above laboratory detection limits in all three (3) MWs sampled on-site. Due to elevated concentrations of PFAS in GW analysed from beneath the Site, Meinhardt understands that CAG does not intend on using GW for irrigation at the Site to minimise the potential spread of PFAS.

7.2.3 Water Based Recreation

A total of three (3) exceedances of the adopted water based recreation screening criteria were reported in GW samples collected from the Site, all for PFAS.

There are no potential on-site water based recreation receptors. The nearest potential water based recreation receptors to the Site is considered to be the Molonglo River, approximately 1.2 km south west of the Site.

PFAS

All three (3) GW samples analysed were reported to exceed the adopted water based recreation screening criteria for the sum of PFHxS & PFOS (0.7 µg/L). This criteria applies to GW that is used for recreation such as swimming or fishing. As such, and because the GW from beneath the Site is not intended to be extracted for any purpose, it is considered unlikely that the elevated PFAS in GW will pose a risk to site users.

Furthermore, Meinhardt understands that CAG periodically monitors surface water along nearby water courses including Woolshed Creek and the Molonglo River, both up-gradient and down-gradient of Canberra Airport. The most recent (September 2019) results of monitoring at these locations to date have shown PFAS are not present at concentrations that would pose a risk to human receptors in waters down-gradient of the Site[7].

[7] Robson Environmental, *Seasonal Stormwater Monitoring Canberra Airport ACT*, 17 October 2019.

7.2.4 Aesthetics

A total of five (5) exceedances of the adopted aesthetic screening criteria for GW sampled from beneath the Site were reported including two (2) for metals (iron) and three (3) for inorganic compounds (TDS and chloride).

The adopted aesthetics screening criteria apply to the point of discharge between GW and surface water bodies. As there is no point of discharge at the Site, and the GW is not considered likely to be extracted to fill a water body at the Site, the exceedances reported are not considered to be significant or relevant to the Site.

7.2.5 Human Health – Vapour Intrusion

There were no exceedances of the adopted groundwater criteria for vapour intrusion arising from GW in samples collected from the Site. Therefore, vapour intrusion risks from GW are considered unlikely to be realised at the Site.

7.3 Potential Impacts on Construction

7.3.1 Soil

The soils at the Site contain concentrations of PFAS above the laboratory LoR and in accordance with Territory and National legislation, need to be appropriately managed on-site or taken to a licenced accepting facility should they be disturbed. Meinhardt is assisting with CAG and a separate report is being prepared to provide a waste categorisation of all soils assessed at the Site.

7.3.2 Groundwater

As with the soils at the Site, GW beneath the 25-27 Catalina Drive site contain concentrations of PFAS above the laboratory LoR at elevations of less than 4.0 mbgl. Given this, CAG may wish to consider the technical implications of constructing basement levels beneath the Site due to the shallow water table and also the presence of PFAS-impacted GW beneath the Site. If basements are constructed to depths of greater than 3.0 m, CAG would need to consider management measures in relation to dewatering during construction, and the ongoing management and/or treatment of GW should any basement be untanked, allowing interaction between groundwater and basement levels.

8 Conclusions and Recommendations

8.1 Conclusions

Meinhardt completed a DSI at 25 – 27 Catalina Drive, Canberra Airport, including intrusive soil sampling and MW installation works on-site between 9 and 11 September 2019 and GW sampling on 2 October 2019. The following conclusions have been drawn based information obtained from the soil and GW assessments:

- An intrusive soil assessment was completed at the Site by experienced Meinhardt field scientists, with a total of 17 SB locations advanced across the Site to a maximum depth of 7.5 mbgl;
- GW was encountered at approximately 4.0 mbgl and three (3) SBs were converted to MWs to allow for assessment of impacts to GW;
- The soil profile at the Site was noted to consist of locally extensive silts and clayey silts (fill) which was underlain by natural silty clay, clayey silt, clay, sandstone and sandy clays. This lithological profile is generally consistent with that observed across much of the Site during previous assessments conducted at the Airport;
- No visual and/or olfactory indicators of soil contamination were noted during the soil and GW assessment works conducted at the Site;
- A total of 122 primary soil samples were collected from the SB locations advanced across the Site, from which all were scheduled for analysis for a suite of potential contaminants of concern associated with airports, including PFAS;
- All soils analysed were found to be largely free of typical contaminants of concern for airport sites including TRH, BTEXN, PAH, phenols, PCBs, chlorinated hydrocarbons, herbicide and pesticides;
- There were no reported exceedances of the adopted ecological and human health screening criteria for soil samples collected from the Site and therefore it is considered unlikely that the soils pose any risk to on-site ecological receptors and human health in the current and future proposed land use scenarios;
- There were no reported exceedances of the adopted buildings and structures screening criteria for soil samples collected from the Site and therefore it is considered unlikely that the soils beneath the Site pose a significant risk to the any future footings or building penetrations;
- While no exceedances were noted, detectable concentrations of PFAS (both total and leachable) were reported in all 17 investigation locations;
- The reason for the presence of detectable PFAS in soils at the Site is not immediately apparent;
- No ACM was detected in the soil samples analysed for asbestos;
- A total of three (3) primary GW samples were collected from the three (3) newly installed MWs across the Site and analysed for a comprehensive suite of contaminants including PFAS;
- Based on GW level and survey data, GW beneath the Site was inferred to flow in a south westerly direction towards the Molonglo River;
- GW samples collected from the Site were found to be free of TRH, PAH and other fuel additives (BTEXN);
- GW samples collected from the Site were found to contain various contaminants/potential contaminants at concentrations exceeding the adopted ecological and/or human health screening criteria for PFAS, metals and inorganic compounds for applicable environmental values, as below:
    - **Ecological** – 16 exceedances of the adopted ecological criteria for PFAS and metals (Al, Cu, Pb and Zn – some of which may be background/naturally occurring). These were noted in GW across the Site.
    - **Irrigation Water Supply** – Four (4) exceedances of adopted irrigation criteria for inorganics (chloride and sodium). These were noted in GW across the Site.

- **Water Based Recreation** – Three (3) exceedances of the adopted water based recreation criteria for PFAS. These were noted in GW across the Site.
- **Aesthetics** – Five (5) exceedances of the adopted aesthetic criteria for metals (Fe) and inorganic compounds (TDS and chloride). These were noted in GW across the Site.

- On review of the data Meinhardt considers that impacts to GW at the Site have the potential to pose a risk to some of the applicable on and/or off-site environmental values. In particular, PFAS impacts are considered to preclude most uses of GW where present;
- The elevated metals results are considered likely to be representative of a combination of naturally elevated background metals in GW and localised affects from imported fill soils;
- PFAS impacts were noted in GW across the Site, with all three (3) MWs reporting results that exceeded the applicable ecological and/or human health criteria;
- The most obvious sources for PFAS impacts to GW at the Site are considered to be the ARFF activities historically conducted at the airside Fire Station and Fire Training Ground, located in the south eastern and north eastern parts of Canberra Airport, respectively; and
- A potential issue exists in relation to the management of PFAS impacted soil and/or groundwater should the soils be excavated for off-site disposal or if GW is intersected during construction activities. Meinhardt understands that CAG does not intend to develop the land to a depth that intersects GW and will manage PFAS-impacted soil appropriately during development (including appropriate disposal of soils to a licenced soil waste-accepting facility, as required).

8.2 Recommendations

Based on the conclusions detailed in ***Section 8.1***, Meinhardt provides the following recommendations:

- CAG should consider the implications of depth to GW and the presence of PFAS (in both soils and GW) when developing the Site for commercial/industrial land use. Meinhardt understands that CAG is unlikely to proceed with the construction of basement levels as part of the 25-27 Catalina Drive development based on the findings of this investigation;
- Should CAG wish to remove soils from the Site as part of earthworks during construction, it is recommended that a waste categorisation report be prepared for the soils requiring off-site transport. Meinhardt is in the process of preparing this for CAG.
- CAG should consider preparing an appropriate Construction Environmental Management Plan (**CEMP**) for future earthworks proposed at the Site in line with the Minister's conditions for any development at the Site; and
- Should the MWs installed as part of these works not be required in the future, they should be appropriately decommissioned to block any preferential pathway from surface to the water table.

9 References

- ACT EPA, *Contaminated Sites – Environment Protection Policy,* 2017.
- ACT EPA, *Environmental Guidelines for Service Station Sites and Hydrocarbon Storage,* 2014.
- ACT EPA, *Water Quality – Environment Protection Policy,* 2008.
- ACT EPA, *Environmental Standards: Assessment & Classification of Liquid & Non-liquid Wastes*, 2000.
- ACT Government, *Environment Protection ACT 1997,* 2017.
- ACT Government, *Environmental Protection Regulation 2005* (amended 2017), 2017.
- ACT Government, *Environmental Standards: Assessment & Classification of Liquid & Non-liquid Wastes*, June 2000.
- ACT EPA, *Contaminated Sites - Information Sheet 4: Requirements for the Re-use and Disposal of Contaminated Soil in the ACT,* 2019.
- Australian Government, *Airports (Environmental Protection) Regulations*, 1997.
- EPA ACT, *Contaminated Sites – Environment Protection Policy*, 2017.
- EPA NSW, *Waste Classification Guidelines Part 1: Classifying Waste,* November 2014.
- EPA Victoria, *Publication 669 – Groundwater Sampling Guidelines*, 2000.
- Heads of EPA, *PFAS National Environmental Management Plan*, January 2018.
- National Environment Protection Council, *National Environment Protection (Assessment of Site Contamination) Measure*, 1999 (as amended 2013).
- Robson Environmental, *Seasonal Stormwater Monitoring Canberra Airport ACT*, 17 October 2019.
- Standards Australia, *Australian Standard 4482.1 – Guide to the investigation and sampling of sites with potentially contaminated soil: Part 1*, 2005.
- Standards Australia, *Australian Standard 4482.1 – Guide to the investigation and sampling of sites with potentially contaminated soil: Part 1*, 2005.

10 Limitations

The assessment in this report was restricted to the agreed scope of works and is subject to the limitations set out below or elsewhere within this report.

The assessment has been undertaken and performed in a professional manner consistent with the skill and care ordinarily exercised by reputable consultants under similar circumstances. No other warranty, expressed or implied, is given.

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Other than the visual observations and analytical data as stated in this report, no representations or warranties are made concerning the nature or quality of the soil, groundwater, surface water and/or soil vapour on the Site. On all sites varying degrees of non-uniformity of the vertical and horizontal, groundwater, surface water and/or soil vapour/landfill gas conditions are encountered. Hence no sampling technique can completely eliminate the possibility that samples are not totally representative of soil and/or groundwater conditions on a site.

It should also be recognised that site conditions, including contaminant extent and concentrations can change with time. Hence, the information in this report is only accurate as at the date of issue. If this report is used after a protracted delay, further investigation of the Site may be necessary.

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APPENDIX A FIGURES



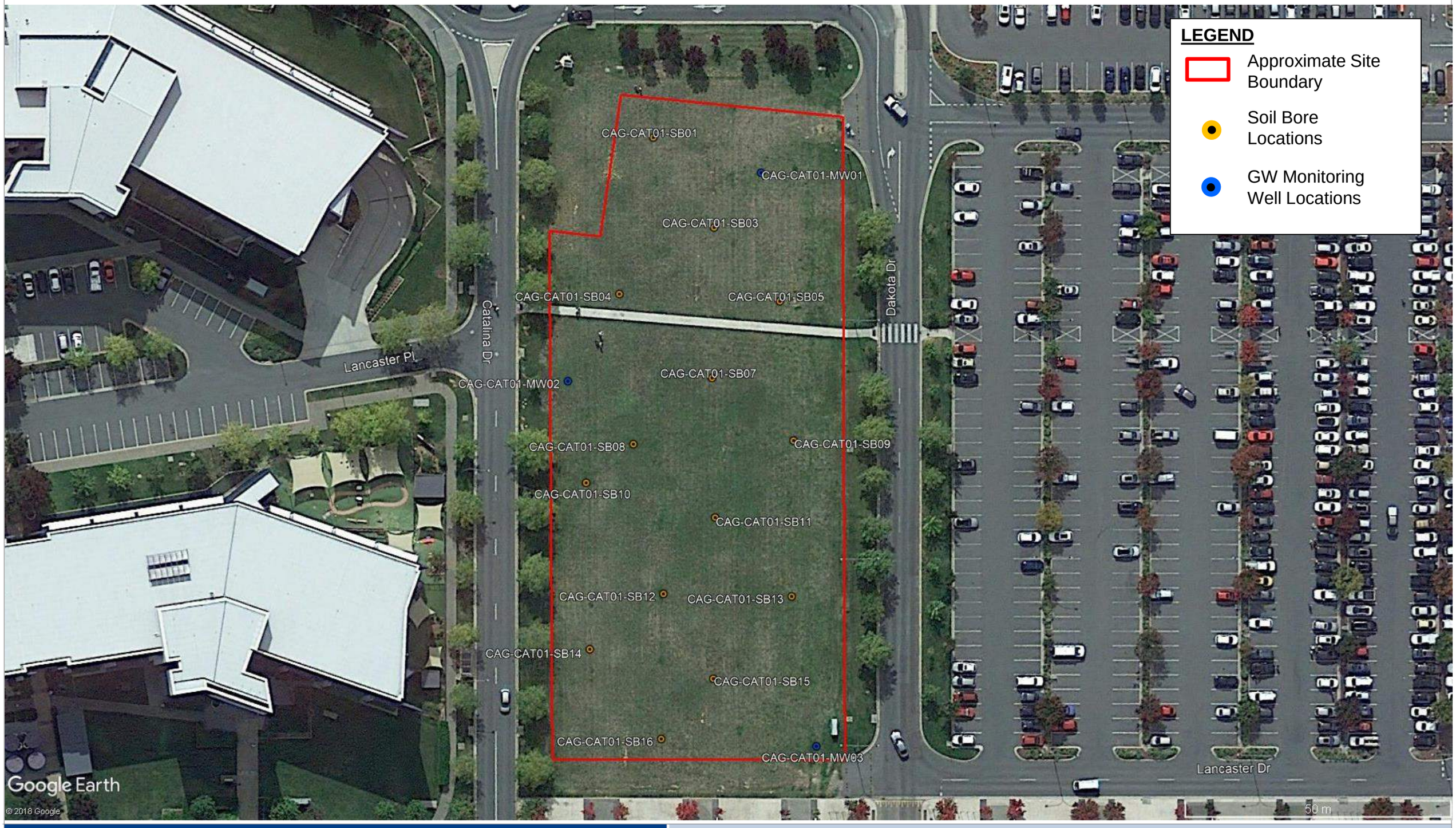
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Level 11, 501 Swanston Street
Melbourne VIC 3000 Australia
T: +61 3 8676 1200
contact@meinhardtgroup.com
www.meinhardt.com.au
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Title

Figure 1 – Site Location Plan

Project	25-27 Catalina Drive – Detailed Site Investigation			
Client	Capital Airport Group	Project Number 121544	Reference Number F01	Revision A

DATA SOURCE: Site Investigation Areas, Meinhardt, 2019; Aerial Imagery, Google Earth Pro, Image date: 8/4/2019, obtained 2019.
DATE: 17/09/2019



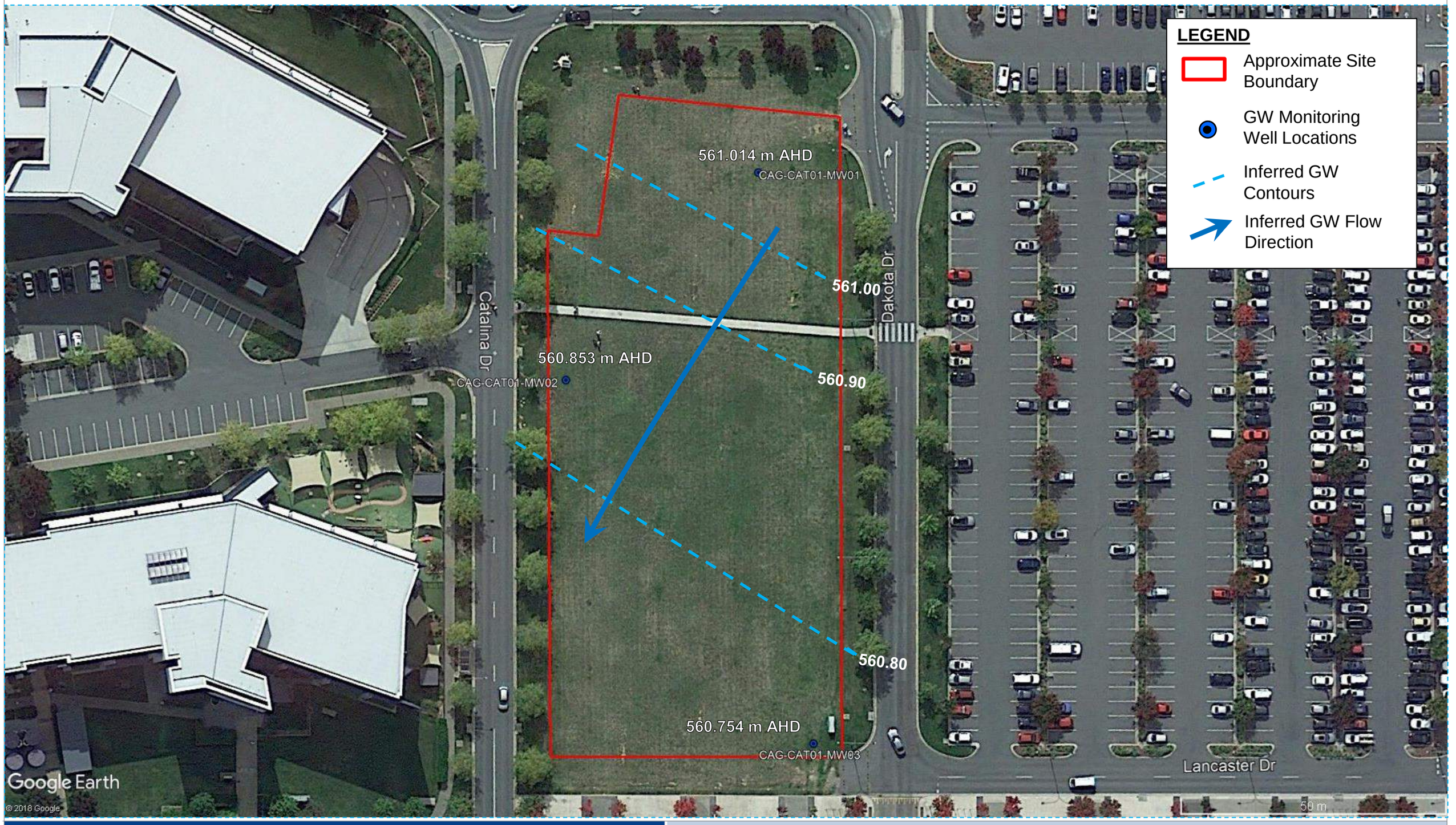
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contact@meinhardtgroup.com
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Figure 2 – Site Investigation Locations

Project	25-27 Catalina Drive – Detailed Site Investigation			
Client	Capital Airport Group	Project Number	Reference Number	Revision
		121544	F02	A

DATA SOURCE: Site Investigation Areas, Meinhardt, 2019; Aerial Imagery, Google Earth Pro, Image date: 8/4/2019, obtained 2019.
DATE: 17/09/2019



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Melbourne VIC 3000 Australia
T: +61 3 8676 1200
contact@meinhardtgroup.com
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Figure 3 – Inferred Groundwater Flow Direction

Project	25-27 Catalina Drive – Detailed Site Investigation			
Client	Capital Airport Group	Project Number	Reference Number	Revision
		121544	F03	A

DATA SOURCE: Site Investigation Areas, Meinhardt, 2019; Aerial Imagery, Google Earth Pro, Image date: 8/4/2019, obtained 2019.
DATE: 17/09/2019

APPENDIX B CALIBRATION CERTIFICATES

Equipment Calibration Form
MiniRAE 3000 PID

Enqip #: 9958

Company: Meinhardt Infrastructure and Environment

Consultant: Sid Paleri

PO #: 121544

Certificate #: 13977

INSTRUMENT IDENTIFICATION

Model Number: PGM 7320

Serial Number: 592-915884

INSPECTION RECORD

Flow Rate: PASS

Buzzer: PASS

Date & Time: PASS

CALIBRATION DETAILS

Parameters	Standard	Result
Air	0.0 ppm	0.0 ppm
Isobutylene	100.0 ppm	100.0 ppm

Alarm Limits: **High** 100 **Low** 50

Calibration Successful: YES

Calibrated By: Doyle Schapendonk

Test Date: 5/09/2019

enqip
116 Thistlethwaite St, South Melbourne 3205
P 1300 218 987
E info@enqip.com.au | **W** www.enqip.com.au

Instrument Quality Report
Interface Meter

Enqip #: 9958
Company: Meinhardt Infrastructure and Environment
Consultant: Sid Paleri
PO #: 121544
Certificate #: 13978

INSTRUMENT IDENTIFICATION

Instrument Type: Solinst Interface Meter
Model Number: 122
Serial Number: 313055

INSPECTION RECORD

Battery:	PASS	**Water Tone:**	PASS
Tape Condition:	PASS	**Hydrocarbon Tone:**	PASS

Tested By: Darrin Arthur **Test Date:** 5/09/2019

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Equipment Calibration Form
YSI ProPlus

enqip

Enqip #: 10110
Company: Meinhardt Infrastructure and Environment
Consultant: Matthew Gibbs
PO #: 121544
Certificate #: 14272

INSTRUMENT IDENTIFICATION

Model Number: 6050000
Serial Number: 16E101392
Instrument Type: YSI ProPlus

INSPECTION RECORD

Batteries Checked:	PASS	**Date & Time:**	PASS
Electrodes Cleaned/Checked:	PASS	**Temperature:**	PASS

CALIBRATION DETAILS

Sensor	Cal Solution	Value	Reading
pH	Buffer 4.00	4.00 pH	4.01 pH
	Buffer 7.00	7.00 pH	7.00 pH
Redox	Standard ORP	241 mV @ 15 °C	241 mV
O_2	Zero Dissolved Oxygen	0.0 %	0.0 %
	Air	100.0 %	100.0 %
Conductivity	Standard Conductivity	2.76 mS/cm	2.76 mS/cm

Calibration Successful: YES

Calibrated By: Doyle Schapendonk

Test Date: 26/09/2019

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Instrument Quality Report
Interface Meter

Enqip #: 10110
Company: Meinhardt Infrastructure and Environment
Consultant: Matthew Gibbs
PO #: 121544
Certificate #: 14273

INSTRUMENT IDENTIFICATION

Instrument Type: Solinst Interface Meter
Model Number: 122
Serial Number: 311998

INSPECTION RECORD

Battery:	PASS	**Water Tone:**	PASS
Tape Condition:	PASS	**Hydrocarbon Tone:**	PASS

Tested By: Darrin Arthur
Test Date: 26/09/2019

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APPENDIX C DETAILED BORE LOGS

ENVIRONMENTAL WELL CAG-CAT01-MW01

PROJECT NUMBER 121544	**DRILLING COMPANY** NUMAC	**COORDINATES** 699012.776, 6091684.28
PROJECT NAME 25-27 Catalina Drive Enviro Ass	**DRILLER** Scott	**COORD SYS** GDA94 MGA Zone 55
CLIENT Capital Airport Group	**DRILL RIG** Geoprobe	**SURFACE ELEVATION**
ADDRESS 25-27 Catalina Drive Canberra Airport	**DRILLING METHOD** HA/PT/SFA	**WELL TOC** -0.11
	TOTAL DEPTH (m) 6.7	**LOGGED BY** SP/MG
DRILLING DATE 9/09/2019 - 9/09/2019	**DIAMETER** 125 mm	**CHECKED BY** SP
LICENCE NO. 0		
COMPLETION Gatic Cover	**CASING** Class 18 uPVC	**SCREEN** Class 18 uPVC 0.4 mm slotted

COMMENTS CAG-CAT01-SB02 converted to CAG-CAT01-MW01

Depth (m)	Drilling Method	PID	Samples	Water	Well Installation Details	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA	0	SB02-0.2		MW01		FILL: Silty CLAY; pale orange to brown with occasional fine to medium gravel.	D	D	Increasing Clay with Depth.	0
0.5		0	SB02-0.5								-0.5
	PT						SILTY CLAY: orange brown with occasional black and yellow mottling.	D	F/St		
1		0	SB02-1.0								-1
1.5		0	SB02-1.5				CLAY: orange brown with traces of black mottling.	D	F/St		-1.5
							SANDSTONE: grey to brown.	D	H/St		
2		0	SB02-2.0				SAND: orange; fine to medium sand; highly weathered.	D	H/St		-2
2.5							CLAYEY SAND: orange brown with traces of black mottling; fine to medium sand.	D	D		-2.5
							SANDY CLAY: orange brown with traces of black mottling; fine to medium sand.	D	F		
3		0	SB02-3.0				CLAYEY SAND: orange brown with traces of black mottling; fine to medium sand.	D/M	D	Sandy in sections; more clayey in Others.	-3
3.5											-3.5
4		0	SB02-4.0	▽							-4
4.5	SFA						SANDY CLAY: orange brown with traces of black mottling; fine to medium sand.	D/M	F		-4.5
5											-5
5.5											-5.5
6							CLAYEY SAND: brown with coarse gravels; fine to course sand.	M/W	S		-6
6.5											-6.5
7		0	SB02-7.0								-7
7.5							Termination Depth at: 7.5 m.				-7.5

Disclaimer This log is intended for environmental not geotechnical purposes.

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ENVIRONMENTAL WELL CAG-CAT01-MW02

PROJECT NUMBER 121544	**DRILLING COMPANY** NUMAC	**COORDINATES** 698975.835, 6091646.25
PROJECT NAME 25-27 Catalina Drive ESA	**DRILLER** Scott	**COORD SYS** GDA94 MGA Zone 55
CLIENT Capital Airport Group	**DRILL RIG** Geoprobe	**SURFACE ELEVATION**
ADDRESS 25-27 Catalina Drive Canberra Airport	**DRILLING METHOD** HA/PT/SFA	**WELL TOC** -0.11
	TOTAL DEPTH (m) 7.5	**LOGGED BY** SP/MG
DRILLING DATE 10/09/2019 - 10/09/2019	**DIAMETER** 125 mm	**CHECKED BY** SP
LICENCE NO. -		

COMPLETION Gatic Cover | **CASING** Class 18 uPVC | **SCREEN** Class 18 uPVC 0.4 mm slotted

COMMENTS CAG-CAT01-SB06 converted to CAG-CAT01-MW02

Depth (m)	Drilling Method	PID	Samples	Water	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA	0	SB06-0.2		FILL: Clayey SILT; pale orange to brown with occasional medium gravels.	D	D		0
0.5	PT	0	SB06-0.5		FILL: Silty CLAY; pale yellow to brown with occasional medium gravels.	D	D		-0.5
1		0	SB06-1.0		SILTY CLAY: brown with occasional black and red mottling; low to medium plasticity.	D	F		-1
1.5		0	SB06-1.5		CLAY: brown with black and orange mottling; traces of silt; medium plasticity.	D	F		-1.5
2		0	SB06-2.0		SANDSTONE: pale grey to brown; highly weathered.	D	H/St	Boken Gravels	-2
2.5					SANDY CLAY: orange brown with extensive black and orange mottling; fine sand; low plasticity.	D	F		-2.5
3		0	SB06-3.0		SANDY CLAY: orange brown with extensive black and orange mottling; fine sand; medium plasticity.	D/M	F		-3
3.5				▽	SILTY CLAY: orange brown with extensive black and orange mottling; fine sand; medium to high plasticity.	M	S		-3.5
4		0	SB06-4.0						-4
4.5	SFA								-4.5
5									-5
5.5					SANDY CLAY: brown; moderate to course sand; medium to high plasticity.	M/W	S		-5.5
6		0	SB06-6.0						-6
6.5									-6.5
7									-7
7.5					Termination Depth at: 7.5 m.				-7.5

Well Installation Details: MW02

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ENVIRONMENTAL WELL CAG-CAT01-MW03

PROJECT NUMBER 121544	**DRILLING COMPANY** NUMAC	**COORDINATES** 699012.382, 6091575.53
PROJECT NAME 25-27 Catalina Drive ESA	**DRILLER** Scott	**COORD SYS** GDA94 MGA Zone 55
CLIENT Capital Airport Group	**DRILL RIG** Geoprobe	**SURFACE ELEVATION**
ADDRESS 25-27 Catalina Drive Canberra Airport	**DRILLING METHOD** HA/PT/SFA	**WELL TOC** -0.11
	TOTAL DEPTH (m) 7.6	**LOGGED BY** SP/MG
DRILLING DATE 11/09/2019 - 11/09/2019	**DIAMETER** 125 mm	**CHECKED BY** SP
LICENCE NO. -		

COMPLETION Gatic Cover | **CASING** Class 18 uPVC | **SCREEN** Class 18 uPVC 0.4 mm slotted

COMMENTS CAG-CAT01-SB17 converted to CAG-CAT01-MW03

Depth (m)	Drilling Method	PID	Samples	Water	Well Installation Details	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA	0	SB17-0.2				FILL: SILT; brown with occasional fine to medium gravels; traces of clay.	D	D		0
0.5	PT	0	SB17-0.5				CLAYEY SILT: yellow brown with orange mottling; traces of black mottles; low to medium plasticity.	D	D		-0.5
1		0	SB17-1.0								-1
1.5		0	SB17-1.5				SILTY CLAY: grey to brown with orange, yellow and black mottling; traces of fine sand; low to medium plasticity.	D	F		-1.5
2		0	SB17-2.0				SANDY CLAY: pale grey to brown with traces of red and orange mottling; fine to medium sand; low to medium plasticity.	D/M	F		-2
2.5							CLAY: pale grey to brown with traces of red and orange mottling; medium plasticity.	D	F		-2.5
3		0	SB17-3.0				SANDY CLAY: pale grey to brown with traces of red and orange mottling; fine to medium sand; low to medium plasticity.	D/M	St		-3
3.5				▽			SILTY CLAY: pale grey with extensive orange to brown mottling; fine sand; low plasticity.	M	F		-3.5
4		0	SB17-4.0				SANDY CLAY: orange brown with red mottling; fine sand; low to medium plasticity.				-4
4.5	SFA										-4.5
5							SANDY CLAY: brown; medium plasticity.	M/W	S		-5
5.5											-5.5
6		0	SB17-6.0								-6
6.5											-6.5
7											-7
7.5											-7.5
							Termination Depth at: 7.6 m.				

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SOIL BORE CAG-CAT01-SB01

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 9/09/2019 - 9/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 698992, 6091691
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: clayey SILT; pale orange brown, occasional fine to medium gravel with traces of fine sand.	D	D		0.00
0.2		0	SB01-0.2							-0.20
0.4	PT					CLAYEY SAND: red to brown with orange and black mottling; fine to medium sand.	D	D	Highly Weathered.	-0.40
0.6		0	SB01-0.5							-0.60
0.8						SANDY CLAY: brown with black and orange mottling; low to medium plasticity.	D	F/St		-0.80
1		0	SB01-1.0							-1.00
1.2			FD01							-1.20
			FS01							
1.4						CLAY: orange to brown with red and orange mottling throughout; trace black mottles, medium plasticity.	D	F		-1.40
1.6		0	SB01-1.5							-1.60
1.8						SANDSTONE: pale grey to brown.	D	St/H		-1.80
						SAND: orange to brown, fine to medium sand.	D	D		
2		0	SB01-2.0							-2.00
2.2						SANDY CLAY: brown with orange and black mottling, medium plasticity.	D	F		-2.20
2.4										-2.40
2.6										-2.60
2.8										-2.80
3		0	SB01-3.0							-3.00
3.2										-3.20
						SANDY CLAY: brown with orange and black mottling, medium plasticity.	D	M		
3.4										-3.40
3.6										-3.60
3.8										-3.80
4		0	SB01-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB03

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 9/09/2019 - 9/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 699003, 6091674
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: clayey SILT; pale brown, occasional fine to medium gravel with traces of fine sand.	D	D		
0.2		0	SB03-0.2							-0.20
0.4										-0.40
0.6		0	SB03-0.5			SANDY CLAY: pale brown with orange and black mottling; fine to medium sand.	D	D		-0.60
0.8	PT					SILTY CLAY: pale brown, low plasticity.	D	F/St		-0.80
1		0	SB03-1.0							-1.00
1.2						CLAY: orange to brown with red to orange mottling throughout, traces of black mottles; medium plasticity.	D	F		-1.20
1.4										-1.40
1.6		0	SB03-1.5							-1.60
1.8										-1.80
2		0	SB03-2.0							-2.00
2.2						SANDSTONE: pale grey to brown.	D	St/H		-2.20
2.4						SAND: orange to brown; fine to medium sand with traces of gravel	D	D		-2.40
2.6						SANDY CLAY: brown with orange and black mottling, medium plasticity.	D	S		-2.60
2.8						SANDSTONE: grey to brown.	D	H/St		-2.80
3		0	SB03-3.0			SANDY CLAY: orange to brown, fine sand with occasional black mottles.	M	S		-3.00
3.2										-3.20
3.4										-3.40
3.6										-3.60
3.8						SANDY CLAY: orange to brown, fine sand with occasional black mottles.	M	S		-3.80
4		0	SB03-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB04

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 9/09/2019 - 9/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 698985, 6091662
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: clayey SILT; pale or brown, occasional fine to medium gravel with traces of fine sand.	D	D		
0.2		0	SB04-0.2							-0.20
0.4						FILL: SILT; pale yellow to brown with occasional gravel, trace clay.	D	D		-0.40
0.6	PT	0	SB04-0.5							-0.60
0.8						SILTY CLAY: orange to brown with red mottles, low plasticity.	D	F/St		-0.80
1		0	SB04-1.0							-1.00
1.2			FD02			SILTY CLAY: yellow to brown with red to orange mottling throughout, trace black mottles; medium plasticity.	D	F		-1.20
1.4			FS02							-1.40
1.6		0	SB04-1.5							-1.60
1.8										-1.80
2		0	SB04-2.0							-2.00
2.2						SANDSTONE: pale grey to brown.	D	St/H		-2.20
2.4						SANDY CLAY: brown with orange and black mottling, medium plasticity; fine sand.	D	F		-2.40
2.6										-2.60
2.8						SILTY CLAY: orange to brown with red and black mottling; medium plasticity.	D/M	F		-2.80
3		0	SB04-3.0							-3.00
3.2										-3.20
3.4										-3.40
3.6						SILTY CLAY: orange to brown with red and black mottling; medium plasticity.	M	S		-3.60
3.8										-3.80
4		0	SB04-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB05

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 9/09/2019 - 9/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.1

COORDINATES 699015, 6091660
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: clayey SILT; pale orange to brown, occasional fine to medium gravel; clay increasing with depth.	D	D		
0.2		0	SB05-0.2							-0.20
0.4						SILTY CLAY: orange brown with occasional yellow and black mottling, low to medium plasticity.	D	F/St		-0.40
0.6	PT	0	SB05-0.5							-0.60
0.8										-0.80
1		0	SB05-1.0							-1.00
1.2										-1.20
1.4										-1.40
1.6		0	SB05-1.5							-1.60
1.8										-1.80
2						CLAY: orange brown to brown with trace black mottling, medium plasticity.	D	F		-2.00
2.2		0	SB05-2.0			SANDSTONE: grey to brown.	D	H/St		-2.20
2.4						SANDY CLAY: orange brown with ocassional black mottling; traces of yellow mottling.	D	H/St		-2.40
2.6										-2.60
2.8										-2.80
3		0	SB05-3.0							-3.00
3.2						SANDSTONE: grey to brown.	D	H/St		-3.20
3.4						SANDY CLAY: orange brown with ocassional black mottling; traces of yellow mottling.	D	H/St		-3.40
3.6										-3.60
3.8										-3.80
4		0	SB05-4.0							-4.00
4.2						Termination Depth at: 4.1 m. Terminated at 4.1 m due to core loss.				-4.20
4.4										-4.4
4.6										-4.60

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SOIL BORE CAG-CAT01-SB07

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 699002, 6091646
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: CLAYEY Silt; pale orange to brown with ocassional fine to medium gravel, clay increasing with depth.	D	D		
0.2		0	SB07-0.2							-0.20
0.4	PT					SILTY CLAY: orange brown with ocassional yellow and black mottling, low to medium plasticity.	D	F/St		-0.40
0.6		0	SB07-0.5							-0.60
0.8										-0.80
1		0	SB07-1.0							-1.00
1.2										-1.20
1.4						CLAY: orange brown to brown with trace black mottling, medium plasticity.	D	F		-1.40
1.6		0	SB07-1.5							-1.60
1.8										-1.80
2		0	SB07-2.0							-2.00
2.2						SILTY CLAY: pale orange brown with ocassional black and yellow mottling, low to medium plasticity.	D	F		-2.20
2.4										-2.40
2.6						SANDY CLAY: orange brown with red and orange mottling, fine to medium sand.	D	F		-2.60
2.8										-2.80
3						SANDSTONE: grey to brown.	D	H/St	Highly Weathered.	-3.00
		0	SB07-3.0			SANDY CLAY: orange brown with black and orange mottling, fine to medium sand.	M	S		
3.2										-3.20
3.4										-3.40
3.6										-3.60
3.8										-3.80
4		0	SB07-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB08

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 698987, 6091634
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: Clayey SILT; pale orange brown with ocassional medium gravels.	D	D		
0.2		0	SB08-0.2							-0.20
0.4	PT					SILT: yellow brown with trace clays, traces of medium gravels.	D	D		-0.40
0.6		0	SB08-0.5			CLAYEY SILT: brown, black and red mottles; traces of fine gravels.	D	D		-0.60
0.8										-0.80
1		0	SB08-1.0							-1.00
1.2						CLAY: brown with black and orange mottling; traces of silt; low to medium plasticity.	D	F		-1.20
1.4										-1.40
1.6		0	SB08-1.5							-1.60
1.8										-1.80
2						SANDSTONE: pale grey to brown.	D	H	Brown Gravels.	-2.00
		0	SB08-2.0			SANDY CLAY: pale grey to brown with extensive black and orange mottling; fine sand; low plasticisty.	D	F		
2.2										-2.20
2.4										-2.40
2.6						SANDY CLAY: pale grey to brown with extensive black and orange mottling; fine sand; medium plasticisty.	D/M	F		-2.60
2.8										-2.80
3		0	SB08-3.0							-3.00
3.2										-3.20
3.4						SILTY CLAY: pale grey to brown with extensive black and orange mottling; fine sand; medium to high plasticisty.	D/M	S		-3.40
3.6										-3.60
3.8										-3.80
4		0	SB08-4.0			CLAYEY SAND: orange brown with extensive orange weathering; fine to medium sand.	M	D		-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB09

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 699017, 6091634
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: CLAYEY Silt; orange brown with ocassional fine to medium gravel.	D	D		-0.20
0.2		0	SB09-0.2							
0.4	PT					SILTY CLAY: orange brown with ocassional yellow and black mottling, low to medium plasticity.	D	F/St		-0.40
0.6		0	SB09-0.5							-0.60
0.8										-0.80
1		0	SB09-1.0							-1.00
1.2										-1.20
1.4						CLAY: orange brown to brown with trace black mottling, medium plasticity.	D	F		-1.40
1.6		0	SB09-1.5							-1.60
1.8										-1.80
2		0	SB09-2.0			SILTY CLAY: pale grey to brown with ocassional black mottling; traces of yellow mottling; low to medium plasticity.	D	F	Hard Band at 2.5m - 2.7m.	-2.00
2.2										-2.20
2.4										-2.40
2.6										-2.60
2.8						SANDY CLAY: orange brown with red and orange mottling, fine to medium sand; low to medium plasticity.	D	F		-2.80
3		0	SB09-3.0							-3.00
3.2										-3.20
3.4						SANDY CLAY: orange brown with black and orange mottling, fine to medium sand.	M	S		-3.40
3.6										-3.60
3.8										-3.80
4		0	SB09-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB10

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.1

COORDINATES 698978, 6091627
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: CLAYEY Silt; orange brown with ocassional medium gravels.	D	D		
0.2		0	SB10-0.2							-0.20
0.4			FD03							-0.40
	PT		FS03			SILT: yellow brown with red mottling; trace clays and medium gravels.	D	D		
0.6		0	SB10-0.5			CLAYEY SILT: brown, black and red mottles; traces of fine gravels.	D	D		-0.60
0.8										-0.80
1		0	SB10-1.0							-1.00
1.2										-1.20
1.4						CLAY: brown to grey with orange and black mottling; traces of silt; medium plasticity.	D	F		-1.40
1.6		0	SB10-1.5							-1.60
1.8										-1.80
2		0	SB10-2.0							-2.00
2.2										-2.20
2.4										-2.40
2.6										-2.60
2.8						SANDY CLAY: grey to brown with red and black mottling; extensive orange weathering.	D	F		-2.80
3		0	SB10-3.0							-3.00
3.2						SANDY CLAY: grey to brown with red and black mottling; extensive orange weathering.	D/M	F		-3.20
3.4										-3.40
3.6										-3.60
3.8										-3.80
4		0	SB10-4.0							-4.00
4.2						Termination Depth at: 4.1 m. Refusal on Hard Ground.				-4.20
4.4										-4.4
4.6										-4.60

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SOIL BORE CAG-CAT01-SB11

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 125 mm
TOTAL DEPTH (m) 4.5

COORDINATES 699002, 6091620
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: SILT; orange brown with occasional fine to medium gravels.	D	D		
0.2		0	SB11-0.2							-0.20
0.4	PT									-0.40
0.6		0	SB11-0.5			SILTY CLAY: orange brown with occasional red and yellow mottling; traces of black mottling and gravel; low to medium plasticity	D	F/St		-0.60
0.8										-0.80
1		0	SB11-1.0							-1.00
1.2										-1.20
1.4										-1.40
1.6		0	SB11-1.5			CLAYEY SAND: grey brown with orange, yellow and black mottling; fine sand.	D	D		-1.60
1.8										-1.80
2		0	SB11-2.0			CLAY: pale grey to brown with occasional black and yellow mottling; low to medium plasticity.	D	F		-2.00
2.2										-2.20
2.4										-2.40
2.6										-2.60
2.8										-2.80
3		0	SB11-3.0			SANDY CLAY: pale grey with extensive orange brown mottling; fine sand; low plasticity.	D	F/St		-3.00
3.2	SFA									-3.20
3.4						CLAY: brown, medium plasticity.	D	F		-3.40
3.6										-3.60
3.8										-3.80
4		0	SB11-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB12

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 698992, 6091606
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: SILT; pale orange to brown with occasional medium gravels.	D	D		
0.2		0	SB12-0.2							-0.20
0.4	PT					SILT: yellow brown with red mottling; traces of clay and medium gravels.	D	D		-0.40
0.6		0	SB12-0.5			CLAYEY SILT: brown with black and red mottling; traces of fine gravels.	D	D		-0.60
0.8										-0.80
1		0	SB12-1.0							-1.00
1.2										-1.20
1.4										-1.40
1.6		0	SB12-1.5			SANDY CLAY: pale gray brown with black and orange mottling; low plasticity.	D	F		-1.60
1.8										-1.80
2		0	SB12-2.0							-2.00
2.2										-2.20
2.4										-2.40
2.6										-2.60
2.8						SANDY CLAY: grey brown with red and black mottling; extensive orange weathering.	D	F		-2.80
3		0	SB12-3.0							-3.00
3.2										-3.20
3.4										-3.40
3.6										-3.60
3.8						CLAY: dark brown with occasional black and orange mottling, low plasticity.	D	F		-3.80
4		0	SB12-4.0							-4.00
4.2			FD05							-4.20
4.4			FS05							-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

SOIL BORE CAG-CAT01-SB13

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 699016, 6091605
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: SILT; pale brown with traces of clay; occasional gravels; fine to medium.	D	D		
0.2		0	SB13-0.2							-0.20
0.4	PT					SILTY CLAY: red brown with occasional black mottling; occasional fine to medium gravels; low plasticity.	D	F/St		-0.40
0.6		0	SB13-0.5							-0.60
0.8										-0.80
1		0	SB13-1.0							-1.00
1.2										-1.20
1.4										-1.40
1.6		0	SB13-1.5			SILTY CLAY: grey brown with orange, yellow and black mottling; fine sand.	D/M	D		-1.60
1.8										-1.80
2		0	SB13-2.0			CLAY: pale grey brown with occasional black and yellow mottling; low to medium plasticity.	D	F		-2.00
2.2										-2.20
2.4										-2.40
2.6										-2.60
2.8										-2.80
3		0	SB13-3.0			SANDY CLAY: pale grey with extensive orange brown mottling; fine sand; low plasticity.	D	F/St		-3.00
3.2										-3.20
3.4						CLAY: brown, medium plasticity.	D	F		-3.40
3.6										-3.60
3.8										-3.80
4		0	SB13-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB14

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 10/09/2019 - 10/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 698978, 6091596
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: Clayey SILT; red brown with occasional medium gravels.	D	D		
0.2		0	SB14-0.2							-0.20
0.4	PT									-0.40
0.6		0	SB14-0.5			SILT: pale yellow to brown with red and black mottling; traces of clay and medium gravels.	D	D		-0.60
0.8										-0.80
1		0	SB14-1.0			CLAYEY SILT: pale grey to brown with black and red mottling; traces of fine gravels.	D	D		-1.00
1.2										-1.20
1.4										-1.40
1.6		0	SB14-1.5			SILTY CLAY: pale grey to brown with black and orange mottling; low plasticity.	D	F		-1.60
1.8										-1.80
2		0	SB14-2.0							-2.00
2.2										-2.20
2.4										-2.40
2.6										-2.60
2.8						SANDY CLAY: grey brown with red and black mottling; fine to medium sand; extensive orange weathering.	D	F		-2.80
3		0	SB14-3.0							-3.00
3.2										-3.20
3.4										-3.40
3.6						SAND: red brown with traces of clay; medium to coarse sand; extensive red orange weathering.	D/M	D		-3.60
3.8						SANDY CLAY: grey brown with orange and black mottling throughout; fine sand.	D/M	F		-3.80
4		0	SB14-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB15

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 11/09/2019 - 11/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 699001, 6091590
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: SILT; brown with occasional fine to medium gravels; traces of clay.	D	D		
0.2		0	SB15-0.2							-0.20
0.4	PT					CLAYEY SILT: orange brown with black mottling; trace gravels.	D	D		-0.40
0.6		0	SB15-0.5							-0.60
0.8										-0.80
1		0	SB15-1.0							-1.00
1.2										-1.20
1.4						SILTY CLAY: grey brown with orange, yellow and black mottling; fine sand; low to medium plasticity.	D	F		-1.40
1.6		0	SB15-1.5							-1.60
1.8										-1.80
2		0	SB15-2.0			SANDY CLAY: pale grey to brown with traces of red and orange mottling; fine to medium sand; low to medium plasticity.	D	F		-2.00
2.2						CLAY: pale grey to brown with traces of black mottling; medium plasticity.	D	F		-2.20
2.4										-2.40
2.6										-2.60
2.8										-2.80
3		0	SB15-3.0			SILTY CLAY: pale grey with occasional orange brown mottling; fine sand; low plasticity.	D	F		-3.00
3.2			FD06							-3.20
3.4			FS06							-3.40
3.6										-3.60
3.8						SANDY CLAY: orange brown with red mottling; fine sand; low to medium plasticity.	D/M	F		-3.80
4		0	SB15-4.0							-4.00
4.2										-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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SOIL BORE CAG-CAT01-SB16

PROJECT NUMBER 121544
PROJECT NAME 25-27 Catalina Drive ESA
CLIENT Capital Airport Group
ADDRESS 25-27 Catalina Drive Canberra Airport

DRILLING DATE 11/09/2019 - 11/09/2019
DRILLING COMPANY Numac
DRILLER Scott
DIAMETER 100 mm
TOTAL DEPTH (m) 4.5

COORDINATES 698991, 6091579
COORD SYS GDA94 MGA Zone 55
SURFACE ELEVATION
LOGGED BY MG/SP
CHECKED BY SP

COMMENTS

Depth (m)	Drilling Method	PID	Samples	Water	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
0	HA					FILL: SILT; brown with occasional fine to medium gravels; traces of clay.	D	D		-0.20
0.2		0	SB16-0.2							
0.4	PT					FILL: SILT; pale yellow to brown with orange mottling; traces of black mottling; low to medium plasticity.	D	D	Red Colour in Sections, Possible Brick Fray	-0.40
0.6		0	SB16-0.5							-0.60
0.8										-0.80
1		0	SB16-1.0			SILTY CLAY: yellow brown with orange, yellow and black mottling; traces of fine sand; low to medium plasticity.	D	F		-1.00
1.2										-1.20
1.4										-1.40
1.6		0	SB16-1.5							-1.60
1.8										-1.80
2		0	SB16-2.0			SILTY CLAY: pale grey to brown with traces of red and orange mottling; low to medium plasticity.	D	F		-2.00
2.2						CLAY: pale grey to brown with traces of red and orange mottling; medium plasticity.	D	F		-2.20
2.4										-2.40
2.6										-2.60
2.8										-2.80
3						SANDSTONE: grey to brown.	D	St		-3.00
		0	SB16-3.0			SANDY CLAY: pale grey with extensive orange brown mottling; fine to medium sand; low plasticity.	D	F		
3.2										-3.20
3.4										-3.40
3.6										-3.60
3.8										-3.80
4		0	SB16-4.0							-4.00
4.2						GRAVELLY CLAY: orange brown with extensive orange and red mottling; occasional fine to medium sand.	M	F		-4.20
4.4										-4.4
4.6						Termination Depth at: 4.5 m. Terminated at target depth				-4.60

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APPENDIX D FIELDSHEETS

MEINHARDT

SOIL BORE LOG

SOIL BORE

LOCATION: CAG-CAT01-SB01

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 9.9.19

Drilling Company: Numac
Driller: Scott + Keith
Drill Rig: Geoprobe
Drilling Method(s): HA/PT.
Total Depth: 4.5mbgl
Diameter: 100

Coordinates: 698992 E
6091691 N
Logged By: MG/SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB01-0.2 (+ ash)			FILL; Pale or-brown Clayey SILT; occasional fine med gravel. Trace fine sand	D	D	
				0.4	NAT; Clayey SAND; red-brown, orange-black mottling; fine-med sand	D	D	+ highly weathered.
	0.0	SB01-0.5						
	0.0	SB01-1.0 FD01 + FS01		0.7	Sandy CLAY, black and brown; trace orange mottling, low-mod plasticity	D	F/ST.	
PT	0.0	SB01-1.5		1.3	CLAY; orange-brown; orange-red mottling throughout trace black mottles Mod plasticity.	D	F	
	0.0	SB01-2.0		1.7	SANDSTONE; pale grey-brown,	D	ST/H	
				1.8	SAND; orange-brown fine-med sand	D	D	
	0.0	SB01-3.0		2.1	Sandy CLAY. or-brown, orange + black mottles, med plasticity.	D	F	
	0.0	SB01-4.0		3.2	As above	D/M	S	
4.5					EOH @ 4.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

MMW ??

MEINHARDT

SOIL BORE LOG

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SOIL BORE

LOCATION: CAG-CAT01-SB02

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 9.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / DT / SFA.
Total Depth: 7.5mbgl
Diameter: 125 mm.

Coordinates: 699015 E, 6091687 N
Logged By: MG

Comments: Construction: 3.3 – 7.3 m Slotted; 0.0 – 3.3 Plain Sand: 2.8 – 7.3 m; Bento: 1.8 – 2.8 m; 0.0 – 1.8 : Cement stabilised sand.

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB02-0.2			FILL: Pale orange-brown CLAYEY SILT, occasional fine-med gravel. ↓ increasing clay with depth	D	D	
0.6	0.0	SB02-0.5 (MEPM)		0.6	NAT: Silty CLAY; or-brown, occasional yellow mottling, trace black mottling	D	F/ST	
	1.0	SB02-1.0						
	0.0	SB02-1.5						
	0.0	SB02-2.0		1.9	CLAY; or-brown to brown, trace black mottling;	D	F/ST	
				1.7	SANDSTONE; grey-brown			
				1.8	SAND; orange - highly weathered, fine-med sand.	D	H/ST	
PT				2.1	CLAYEY SAND; or-brown, fine-med sand; trace black mottling	D	D	
				2.6	sandy CLAY; or-brown, fine-med sand trace black mottling.	D	F	
	0.0	SB02-3.0 (MEPM)						
4.5				3.1	CLAYEY SAND: as abv.	D/M	D	Sandy in some bores and clayey in others.
	0.0	SB02-4.0		4.2	Sandy CLAY; as above	D/M	F	
SFA				6.0	Clayey SAND; brown, with coarse gravels, fine-coarse sand EOH @ 7.5	M/W	S	
	0.0	SB02-7.0						
7.5								

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

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SOIL BORE LOG

SOIL BORE

LOCATION: CAG-CAT01-SB03

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 9.9.19

Drilling Company: Numac
Driller: Scott + Keith
Drill Rig: Geoprobe
Drilling Method(s): HA/PT.
Total Depth: 4.5mbgl
Diameter: 100

Coordinates: 699003 E, 6091674 N
Logged By: MG/SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA		SB03-0.2			FILL; Pale orange-brown Clayey SILT; occasional fine-med gravel. Trace fine sand	D	D	
				0.6	NATURAL; Sandy CLAY; pale brown, orange-black mottling; fine-med sand. Trace gravel	D	D	
		SB03-0.5 (ash)						
		SB03-1.0		0.7	Silty CLAY; pale brown; low plasticity.	D	F/ST	
PT		SB03-1.5		1.4	CLAY; orange-brown; orange-red mottles, with thin layers of trace black mottles. Med plasticity.	D	F	
				2.2	SANDSTONE; pale grey-brown,	D	ST/H	
		SB03-2.0		2.3	SAND; orange-brown fine-med sand. Trace gravel.	D	D	
				2.5	Sandy CLAY; orange-brown, orange & black mottles, med plasticity.	D	S	
		SB03-3.0		2.8	SANDSTONE; grey-brown	D	H/ST	
				2.9	Sandy CLAY; orange-brown, fine sand; extensive orange weathering, occasional black mottles.	M	S	
		SB03-4.0		3.8	As above, occasional red mottles too.	M	S	
					Core @ 4.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB04

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 9.9.19

Drilling Company: Numac
Driller: Scott + Keith
Drill Rig: Geoprobe
Drilling Method(s): HA/PT.
Total Depth: 4.5mbgl
Diameter: 100

Coordinates: 698985 E, 6091662 N
Logged By: MG/SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB04-0.2			FILL; Pale or-brown Clayey SILT; occasional fine med gravel. Trace fine sand	D	D	
				0.3	FILL; SILT; occasional gravel; pale yellow-brown. trace clay.	D	D	
	0.0	SB04-0.5		0.7	NATURAL: Silty CLAY; or-brown low plasticity. or+red mottles,	D	F/St	
	0.0	SB04-1.0 FD02 + FS02		1.0	SILT; yellow-brown; orange-red mottles, trace black mottles	D	F	
PT	0.0	SB04-1.5			low-mod plasticity.			
				2.1	SANDSTONE; pale grey-brown,	D	St/H	
	0.0	SB04-2.0		2.2	Sandy CLAY. or-brown, orange + black mottles, med plasticity, fine sand.	D	F	
	0.0	SB04-3.0		2.7	Silty CLAY; highly weathered, or-brown, occ. red + black mottling, mod. plasticity.	D/M	F	
	0.0	SB04-4.0		3.5	As above.	M	S	
					Core 4.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB05

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 9.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / DT
Total Depth: 4.1 mbgl.
Diameter: 125 mm.

Coordinates: 699015 E, 6091660 N
Logged By: SP

Comments: Could not go to 4.5 m due to core loss.

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB05-0.2 (asb)			FILL: Pale orange-brown CLAYEY SILT, occasional fine - med gravel. Clay increases with depth.	D	D	
0.5	0.0	SB05-0.5		0.4	NAT; SILTY CLAY; or-brown, occasional yellow mottling, trace black mottling, low-mod plasticity	D	F/ST	
	0.0	SB05-1.0		1.4	CLAY; or-brown to brown, trace black mottling; Mod plasticity	D	F	
	0.0	SB05-1.5		2.1	SANDSTONE; grey-black	D	H/ST	
	0.0	SB05-2.0		2.2	Sandy CLAY; or-brown occasional black mottling trace yellow mottling	D		
PT	0.0	SB05-3.0		3.1	As at 2.1; SANDSTONE			
	0.0	SB05-4.0		3.2	As at 2.2.			
4.1					END @ 4.1m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

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SOIL BORE LOG

Page 1 of 1

SOIL BORE

LOCATION: CAG-CAT01-SB06

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott Ross
Drill Rig: Geoprobe
Drilling Method(s): HA/PT/SFA.
Total Depth: 7.5mbgl
Diameter: 125

Coordinates: 698976 E, 6091651 N
Logged By: ~~AG~~ SP

Comments: Slotted: 3.3-7.3m; Plain: 0.0-3.3 Sand: 2.8-7.3m; Bento: 1.8-2.8m; Cement/Bento: Surface-1.8m slurry

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
	0.0	SB06-0.2			FILL; pale orange-brown, clayey SILT; occasional medium gravels,	D	D	
HA				0.3	As above, pale yellow-brown silty CLAY.	D	D	
0.4	1.0	SB06-0.5		0.6	NAT; Silty CLAY; brown; occ. black and red mottles; low-mod plasticity	D	F	
	0.0	SB06-1.0		1.4	CLAY; brown, trace silt, black and orange mottles, mod plasticity.	D	F	
	0.0	SB06-1.5		2.2	SANDSTONE (weathered); pale grey-brown.	D	H	← broken gravels
PT	0.0	SB06-2.0		2.4	Sandy CLAY; orange-brown, extensive black mottling, orange mottling, low plasticity	D	F	→ fine sand.
	0.0	SB06-3.0		2.9	As above; moderate plasticity, fine sand	M	F.	
				3.7	Silty CLAY; as above, mod-high plasticity.	M	S	
4.5								
SFA	0.0	SB06-4.0		5.6	Sandy CLAY; brown; mid-coarse sand; mod-high plasticity,	M/W	S	
	0.0	SB06-6.0						
7.5					EOH @ 7.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

MEINHARDT

SOIL BORE LOG

SOIL BORE

LOCATION: CAG-CAT01-SB07

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major's Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / DT
Total Depth: 4.5 mbgl.
Diameter: 100 mm.

Coordinates: 699002 E, 6091646 N
Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB07-0.2 (NEQM)			FILL: Pale orange-brown CLAYEY SILT, occasional fine - med gravel. Clay increases with depth.	D	D	
0.4	0.0	SB07-0.5 (ASB)		0.4	NAT: Silty CLAY, or-brown, occasional yellow mottling, trace black mottles, low - mod plasticity	D	F/ST	
	0.0	SB07-1.0						
	0.0	SB07-1.5		1.4	CLAY: or-brown to brown, trace black mottling. Mod plasticity	D	F	
PT	0.0	SB07-2.0 (NEQM)		2.1	Silty CLAY: pale or-brown, occasional black mottling, trace yellow mottling, low-mod plasticity.	D	F	
	0.0	SB07-3.0		2.6	Sandy CLAY: orange-brown, red-orange mottles, fine - med sand.			
				2.9	SANDSTONE: grey-brown,	D	H/ST	← Highly weathered
	0.0	SB07-4.0		3.0	Sandy CLAY: orange-brown, fine-med sand, orange and black mottles	M	S	
4.5					— EOH @ 4.5m —			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB08

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott Ness
Drill Rig: Geprobe
Drilling Method(s): HA / PT / SFA.
Total Depth: 4.5m
Diameter: 100 mm.

Coordinates: 698987 E, 6091634 N
Logged By: ~~AG~~ SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB08-0.2			FILL; pale orange-brown, clayey SILT; occasional medium gravels,	D	b	
				0.4	NAT; SILT; yellow-brown, trace clay, trace med gravels.			
0.4	1.0	SB08-0.5		0.6	Clayey SILT; brown, black and red mottles; low-trace fine gravel.	D	D	
	0.0	SB08-1.0						
	0.0	SB08-1.5		1.1	CLAY; brown, trace silt, black and orange mottles, low-mod plasticity.	D	F	
	0.0	SB08-2.0		1.9	SANDSTONE (weathered); pale grey-brown.	D	H	← Broken gravels.
PT				2.0	Sandy CLAY; pale grey-brown. extensive black matting, orange mottling, low plasticity	D	F	→ fine sand.
	0.0	SB08-3.0		2.5	As above; moderate plasticity, fine sand, or-brown.	D/M	F.	
				3.4	Silty CLAY; as above, mod-high plasticity.	D/M	S	
				3.9	Clayey SAND; orange-brown extensive orange mottling; fine-med sand	M	D	
	0.0	SB08-4.0						
4.5					EOH @ 4.5 m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB09

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / DT
Total Depth: 4.5 mbgl.
Diameter: 100 mm.

Coordinates: 699017 E
6091634 N

Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB09-0.2 (ASB)			FILL; orange-brown CLAY/SILT, occasional fine-med gravel.	D	D	
	0.0	SB09-0.5		0.3	NAT; silty CLAY; or-brown, occasional yellow mottling, trace black mottling, low-mod plasticity	D	F/St	
	0.0	SB09-1.0						
	0.0	SB09-1.5		1.3	CLAY; or-brown to brown, trace black mottling; Mod plasticity	D	F	
	0.0	SB09-2.0		1.9				
PT					Silty CLAY; pale grey-brown occasional black mottling trace yellow mottling low-mod plasticity.	D	F	← Hard band @ 2.5-2.7m.
	0.0	SB09-3.0		2.8	Sandy CLAY; orange-brown, red-orange mottles, fine-med sand. Low-mod plasticity.	M	F	
	0.0	SB09-4.0		3.4	Sandy CLAY; orange-brown fine-med sand, orange and black mottles	M	St	
					— EOH @ 4.5m —			

0.4 ←

4.5 ←

SOIL BORE

LOCATION: CAG-CAT01-SB10

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott Rees
Drill Rig: Geoprobe
Drilling Method(s): HA/PT
Total Depth: 4.5m
Diameter: 100 mm.

Coordinates: 698 978 E
609 627 N

Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB10-0.2 FD03+FS03			FILL; pale orange-brown, clayey SILT; occasional medium gravels,	D	D	
0.4				0.4	NAT; SILT; yellow-brown, trace clay, trace med gravels, red mottling.	D	D	
	0.0	SB10-0.5		0.6	Clayey SILT; brown, blue and red mottles; low-trace fine gravel.	D	D	
	0.0	SB10-1.0		1.4	CLAY; brown, trace silt, black and orange mottles, low-mod plasticity.	D	F	
	0.0	SB10-1.5						
PT	0.0	SB10-2.0		2.8	Sandy CLAY; grey-brown with extensive orange weathering, red and black mottling.	D	St	
	0.0	SB10-3.0		3.2	As above.	D/M	F	
	0.0	SB10-4.0						
4.5					EOH @ 4.1m			Refusal on hard ground.

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB11

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major's Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / PT / SFA
Total Depth: 4.5 mbgl.
Diameter: 100 mm.

Coordinates: 699002 E, 6091620 N
Logged By: SP

Comments: Changed to SFA @ 3.2 due to natural / hard ground.

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB11-0.2			FILL; orange-brown SILT. occasional fine - med gravel.	D	D	
0.4	0.0	SB11-0.5 (NEPM)		0.6	NAT; SILTY CLAY; or-brown, occasional red-yellow mottling, trace black mottling, low-mod plasticity, trace gravel.	D	F/St	
	0.0	SB11-1.0						
	0.0	SB11-1.5		1.5	Clayey SAND; grey-brown, orange, yellow and black mottling. fine sand	D	D	
	0.0	SB11-2.0		1.9				
PT					CLAY; pale grey-brown occasional black mottling trace yellow mottling low-mod plasticity.	D	F	
	0.0	SB11-3.0 (NEPM)		2.9				
3.2					Sandy CLAY; pale grey, extensive orange-brown mottling, fine sand, low plasticity.	D	F/St	
SFA	0.0	SB11-4.0		3.4	CLAY; brown; moderate plasticity.	D	F	
4.5					EOH @ 4.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB12

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott Ross
Drill Rig: Geprobe
Drilling Method(s): HA/PT
Total Depth: 4.5m
Diameter: 100 mm.

Coordinates: 698992 E
6091606 N

Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB12-0.2			FILL; pale orange-brown, SILT; occasional medium gravels,	D	D	
				0.4	NAT; SILT; yellow-brown, trace clay, trace med gravels, red mottling.	D	D	
0.4	0.0	SB12-0.5						
	0.0	SB12-1.0		0.6	Clayey SILT; brown, black and red mottles; low-trace fine gravels.	D	D	
	0.0	SB12-1.5		1.6	Sandy CLAY; pale grey-brown black and orange mottles, low plasticity.	D	F	
	0.0	SB12-2.0						
PT				2.8	Sandy CLAY; grey-brown with extensive orange weathering, red and black mottling.	D	F	
	0.0	SB12-3.0						
				3.7	CLAY; dk brown, occasional black and orange mottling, low plasticity.	D	F	
	0.0	SB12-4.0 FD05+ FS05						
4.5					EOH @ 4.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

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SOIL BORE LOG

SOIL BORE

LOCATION: CAG-CAT01-SB11

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / PT
Total Depth: 4.5 mbgl.
Diameter: 100 mm.

Coordinates: 699016 E, 6091605 N

Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB13-0.2 (ash)			FILL; Pale brown SILT; occasional gravels, fine-med. Trace clay.	D	D	
0.4	0.0	SB13-0.5		0.4	VAT; Silty CLAY; red-brown, occasional black mottling, occasional gravels, fine-med, low plasticity.	D	F/St	
	0.0	SB13-1.0						
	0.0	SB13-1.5		1.5	Silty CLAY; grey-brown, orange, yellow and black mottling. fine sand	D/M	D	
	0.0	SB13-2.0		1.9				
PT					CLAY; pale grey-brown occasional black mottling trace yellow mottle low-med plasticity.	D	F	
	0.0	SB13-3.0		2.9				
					Sandy CLAY; pale grey, extensive orange-brown mottling, fine sand, low plasticity.	D	F/St	
	0.0	SB13-4.0		3.4	CLAY; brown; moderate plasticity.	D	F	
4.5					— EOH @ 4.5m —			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB14

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Majura Business Park
Date: 10.9.19

Drilling Company: Numac
Driller: Scott Ross
Drill Rig: Geprobe
Drilling Method(s): HA/PT
Total Depth: 4.5m
Diameter: 100 mm.

Coordinates: 698978 E, 6091596 N
Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB14-0.2			FILL; pale red-brown, clayey SILT; occasional medium gravels,	D	D	
				0.6	NAT; SILT; yellow-brown, trace clay, trace med gravels, red and black mottling.	D	D	
	0.0	SB14-1.0		1.0	Clayey SILT; pale grey-brown, black and red mottles; low-trace fine gravels.	D	D	
	0.0	SB14-1.5		1.6	Silty CLAY; pale grey-brown, black and orange mottles, low plasticity.	D	F	
	0.0	SB14-2.0						
PT				2.8	Sandy CLAY; grey-brown with extensive orange weathering, red and black mottling. fine-med sands.	D	F	
	0.0	SB14-3.0		3.5	SAND; red-brown. Extensive red-orange weathering. Trace clay. med-coa-sc sand	D/M	D	
	0.0	SB14-4.0		3.7	Sandy CLAY; grey-brown with fine sand, orange and black mottling throughout	D/M	F	
				4.5	EOH @ 4.5m			

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SOIL BORE LOG

SOIL BORE

LOCATION: CAG-CAT01-SB15

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 1.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / PT
Total Depth: 4.5 mbgl.
Diameter: 100 mm

Coordinates: 699001 E, 6091590 N
Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB15-0.2			FILL; Brown SILT; occasional gravels, fine-med. Trace clay.	D	D	
0.4				0.4				
	0.0	SB15-0.5			NAT: Clayey SILT: orange brown, black mottling, trace gravels.	D	D	
	0.0	SB15-1.0						
				1.3				
	0.0	SB15-1.5			Silty CLAY; grey-brown, orange, yellow and black mottling. Trace fine sand. Low-mod plasticity.	D	F	
				1.9				
	0.0	SB15-2.0			Sandy CLAY; pale grey-brown, trace red-orange mottling, low-mod plasticity. Fine-med sand.	D	F	
PT				2.2				
					CLAY; as above, mod plasticity, trace black mottling.	D	F	
	0.0	SB15-3.0 FD06 FS06		2.9				
					Silty CLAY; pale grey, occasional orange-brown mottling, fine sand, low plasticity.	D	F	
	0.0	SB15-4.0		3.7				
					Sandy CLAY; orange-brown red mottling, fine sand, low-moderate plasticity.	D/M	F	
4.5					EOH @ 4.5			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

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SOIL BORE LOG

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SOIL BORE

LOCATION: CAG-CAT01-SB16

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 1.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / PT / SFA.
Total Depth: 7.5 mbgl.
Diameter: 125 mm

Coordinates: 698991 E, 6091579 N

Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB16-0.2			FILL; Brown SILT; occasional gravels, fine-med. Trace clay.	D	D	
				0.3	FILL SILT, pale yellow-brown, orange mottling, trace black mottles, low-moderate plasticity.	D	D	← Red colour in seams (brick frag?)
	0.0	SB16-0.5 (NEPM)						
	0.0	SB16-1.0		0.9	NAT: Silty CLAY; yellow-brown, orange, yellow and black mottling. Trace fine sand. Low-mod plasticity.	D	F	
	0.0	SB16-1.5						
	0.0	SB16-2.0		1.9	Silty CLAY; pale grey-brown, trace red-orange mottling, low-mod plasticity.	D	F	
PT				2.2	CLAY; as above, mod plasticity	D	F	
				2.4	SANDSTONE; grey-brown.	D	ST	
	0.0	SB16-3.0 (NEPM)		3.0	Sandy CLAY; pale grey, extensive orange-brown mottling, fine-med sand. low plasticity	D	F	
	0.0	SB16-4.0						
				4.2	Gravelly CLAY; or-brown, extensive orange and red mottling. occasional sand (fine-med)	M	F	
					EOH @ 4.5			

0.4.

4.5

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

SOIL BORE

LOCATION: CAG-CAT01-SB17

Project No. 121544
Project Name: 25-27 Catalina Drive Enviro Assessment
Client: CAG
Address: 25-27 Catalina Drive Major Business Park
Date: 1.9.19

Drilling Company: Numac
Driller: Scott / Keith.
Drill Rig:
Drilling Method(s): HA / PT / SFA.
Total Depth: 7.5 mbgl.
Diameter: 125 mm

Coordinates: 699013 E, 6091577 N

Logged By: SP

Comments:

DRILL METHOD	PID	SAMPLES	WATER	DEPTH (m)	MATERIAL DESCRIPTION (Classification, fill/natural, colour, particle size, other soil components, plasticity)	MOISTURE	CONSISTENCY	OBSERVATIONS (odour, staining, other inclusions, organics, etc.)
HA	0.0	SB17 -0.2 (ash)			FILL; Brown SILT; occasional gravels, fine-med. Trace clay.	D	D	
0.4				0.3				
	0.0	SB17-0.5			VAT: Clayey SILT: yellow-brown, orange mottling, trace black mottles, low-moderate plasticity.	D	D	
	0.0	SB17-1.0						
				1.3				
	0.0	SB17-1.5			Silty CLAY; grey-brown, orange, yellow and black mottling. Trace fine sand. Low-mod plasticity.	D	F	
	0.0	SB17-2.0		1.9	Sandy CLAY; pale grey-brown, trace red-orange mottling, low-mod plasticity. Fine-med sand.	D/M	F	
PT				2.2				
					CLAY; as above, mod plasticity	D	F	
				2.8	As at 1.9.	D	ST	
	0.0	SB17-3.0		2.9	Silty CLAY; pale grey, extensive orange-brown mottling, fine sand, low plasticity.	D/M	F	
	0.0	SB17-4.0 FD07+ FS07		3.7	Sandy CLAY; orange-brown red mottling, fine sand, low-moderate plasticity.	M	F	
4.5								
SFA				4.8	Sandy CLAY; brown. moderate plasticity	M/W	S	
	0.0	SB17-6.0						
					EOH @ 7.5m			

This log is designed for Environmental Observations and acts as a guide only to inform the details required as part of AS1726-1993.

Monitoring Well Development Notes

LOCATION: MW01

Project No. 121544 **Diameter:** 50mm **Coordinates:** E

Project Name: Catalina Dr (25-27) **Total Depth:** 6.39 N

Client: CAG **Screen:** 2.39–6.39 m **Logged By:** SP/MG

Address: 25-27 Catalina Dr. **SWL Depth:** 4.006 mbTOC

Date: 11/09/2019 Ground to TOC = 0.11m.

Comments: Need to take out ~ 14.5L.

DRILL METHOD	SWL (m) Start	SWL (m) End	Litre Purged (L)	OBSERVATIONS (Colour, Odour, Turbidity, Sedimentation)
	4.006			Brown, no odour/sheen, mod-high turbidity/sed load.
		4.110	16L.	Brown, no odour/sheen, mod turbidity, low sed load.
		4.103	23L	Brown, no odour/sheen, low-med turbidity, low/no sed load.
	1253 PM.	COLLECTED OPPORTUNISTIC SAMPLE.		

This log is designed for Environmental Observations and acts as a guide only to inform the details required.

Monitoring Well Development Notes

LOCATION: MW07

Project No. 121544 **Diameter:** 50mm **Coordinates:** E

Project Name: Catalina Dr (25-27) **Total Depth:** 7.0 mbTOC. N

Client: CMG **Screen:** 3.0 – 7.0 mbTOC **Logged By:** SP/MG

Address: 25-27 Catalina Dr. **SWL Depth:** 3.8 mbTOC

Date: 11/09/2019 Ground to TOC = 0.10m.

Comments: Need to take out ~ 19 L.

DRILL METHOD	SWL (m) Start	SWL (m) End	Litre Purged (L)	OBSERVATIONS (Colour, Odour, Turbidity, Sedimentation)
	3.800			Brown, no odour/sheen, mod-high turbidity/sed load.
		4.33	12L.	Brown, no odour/sheen, mod turbidity, low sed load.
		4.37	24L	Brown, no odour/sheen, low-med turbidity, low/no sed load.
	1320 PM.	COLLECTED OPPORTUNISTIC SAMPLE.		

This log is designed for Environmental Observations and acts as a guide only to inform the details required.

Monitoring Well Development Notes

LOCATION: CAG-CAT01-MW03

Project No. 121544
Project Name: Catalina Drive (25-27)
Client: CAG
Address: 25-27 Catalina Drive
Date: 11.9.19.

Diameter: 50mm
Total Depth: 7.52 mbTOC
Screen: 3.52-7.52
SWL Depth: 4.20 mbTOC
TOC = -0.11

Coordinates: E N

Logged By: MC.

Comments: Need to take out ~20L

DRILL METHOD	SWL (m) Start	SWL (m) End	Litre Purged (L)	OBSERVATIONS (Colour, Odour, Turbidity, Sedimentation)
	4.20			Brown, No odour/sheen, med to high turbidity/sed load.
		4.51	10L	Brown, No odour/sheen, med turbidity, low sediment load.
		4.74	20L	Brown, no odour/sheen, low-med turbidity, with no sediment load.
	14:30		Collected	opportunistic sample.

This log is designed for Environmental Observations and acts as a guide only to inform the details required.

GROUNDWATER SAMPLING RECORD

BORE ID: CAG-CAT01-MW01

PROJECT INFORMATION		SAMPLING INFORMATION		BORE INFORMATION	
Project Number: 121544		Sampling Method: Low Flow Micropurge		SWL (m bTOC): 4.375	NAPL Present: Yes / (No)
Client: CAG		WQ Meter Type: YSI		Ground Level to TOC (m): -0.11	Depth to NAPL: –
Site Location: Catalina Drive		Depth Tape Used: Interface		Bore Depth (m bTOC): 6.60	Well Cap Secure: (Yes) / No
Date: 2.10.19		Flow Cell: (Yes) / No		Screen Range (m bTOC): 2.60-6.60	Bore Diameter: 50mm/100mm/___
Sampled By: MC		Metals Field Filtered: Yes	Filter Type: 0.45µm	Pump inlet (m bTOC): 5.60	Bore Locked: (Yes) / No

PURGING RECORD

Time	Purge Rate (L/min)	Volume Purged (L)	Temp (°C)	Conductivity (mS or µS)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Depth to Water (m bTOC)	Appearance (colour, turbidity, odour, etc)
Stabilisation Criteria (3 Consecutive Readings)			**-**	***±3%***	***±0.05***	***±10***	***±10%***		
16:01	0.4	0.0	-	-	-	-	-	4.36	Pale Brown, Mod Turb, Nil odour
16:03	0.4	0.8	17.4	1004	7.47	-41	5.75	4.39	" " "
16:06	0.4	1.4	17.2	1009	7.37	-50	5.33	4.42	" " "
16:09	0.4	2.6	17.1	991	7.37	-27	4.41	4.45	" Med Turb, "
16:12	0.4	3.8	17.1	987	7.36	-24	4.30	4.45	" " "
16:15	0.4	5.0	17.0	986	7.35	-21	4.27	4.47	" " "
Total Volume Purged (L): 5.0									Pale brown, Mod Turb, Nil odour

Sample Containers Used

Preservative	Sample Container
Nil	500ml P
HNO3 (Metals)	50ml P
H_2SO_4	
HCl (VOC)	2x40ml Vial
Other	2x PFAS, 2x 100ml P

No. of Sample Containers: _____

Volume of Sample Collected (L): _____

Observations and Comments

Weather Conditions: Fine.

Air Temp °C: 24

General Comments:

FD01 / ES01 Taken @ MW01

Stablisation Criteria adopted from EPA Publication 669 – Groundwater Sampling Guidelines 2000

GROUNDWATER SAMPLING RECORD

BORE ID: CAG-CAT01-MW02

PROJECT INFORMATION		SAMPLING INFORMATION		BORE INFORMATION	
Project Number:	121544	Sampling Method:	Low Flow Micropurge	SWL (m bTOC):	4.066
Client:	CAG	WQ Meter Type:	YSI	Ground Level to TOC (m):	-0.11
Site Location	Catalina Drive	Depth Tape Used:	Interface	Bore Depth (m bTOC):	6.98
Date:	2.10.19	Flow Cell:	(Yes) / No	Screen Range (m bTOC):	2.98-6.98
Sampled By:	MC	Metals Field Filtered:	Yes	Filter Type:	0.45µm
				Pump inlet (m bTOC):	5.98
				NAPL Present: Yes / (No)	
				Depth to NAPL:	–
				Well Cap Secure: (Yes) / No	
				Bore Diameter: 50mm/100mm/___	
				Bore Locked: (Yes) / No	

PURGING RECORD

Time	Purge Rate (L/min)	Volume Purged (L)	Temp (°C)	Conductivity (mS or µS)	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Depth to Water (m bTOC)	Appearance (colour, turbidity, odour, etc)
Stabilisation Criteria (3 Consecutive Readings)			**-**	***±3%***	***±0.05***	***±10***	***±10%***		
17:05	0.4	0.0	-	-	-	-	-	4.06	-
17:07	0.4	0.8	16.9	1634	7.43	-76	3.15	4.17	Pale Brown, High Turb, Nil Odour
17:10	0.3	1.4	16.3	1612	7.39	-91	2.03	4.20	" " "
17:13	0.3	2.3	16.3	1431	7.39	-90	2.10	4.22	" Med Turb "
17:16	0.3	3.2	16.3	1419	7.40	-87	1.99	4.24	" " "
17:19	0.3	4.1	16.3	1416	7.41	-85	1.94	4.27	" " "
Total Volume Purged (L):	4.1								Pale Brown, Med Turb, Nil Odour

Sample Containers Used	
Preservative	**Sample Container**
Nil	500ml P
HNO3 (Metals)	500ml P
H_2SO_4	
HCl (VOC)	2x40ml Vials
Other	2x HEAS, 2x 100ml P

No. of Sample Containers: _____

Volume of Sample Collected (L): _____

Observations and Comments

Weather Conditions: Fine. Air Temp °C: 24

General Comments:

Stablisation Criteria adopted from EPA Publication 669 – Groundwater Sampling Guidelines 2000

GROUNDWATER SAMPLING RECORD

BORE ID: CAG-CAT01-MW03

PROJECT INFORMATION		SAMPLING INFORMATION		BORE INFORMATION	
Project Number: 121544		Sampling Method: Low Flow Micropurge		SWL (m bTOC): 4.229	NAPL Present: Yes / (No)
Client: CAG		WQ Meter Type: YSI		Ground Level to TOC (m): -0.11	Depth to NAPL: –
Site Location: Catalina Drive		Depth Tape Used: Interface		Bore Depth (m bTOC): 7.52	Well Cap Secure: (Yes) / No
Date: 2.10.19		Flow Cell: (Yes) / No		Screen Range (m bTOC): 3.52-7.52	Bore Diameter: 50mm/100mm/___
Sampled By: MC		Metals Field Filtered: Yes	Filter Type: 0.45µm	Pump inlet (m bTOC): 6.52	Bore Locked: (Yes) / No

	PURGING RECORD								
Time	Purge Rate (L/min)	Volume Purged (L)	Temp (°C)	Conductivity (mS or (µS))	pH	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Depth to Water (m bTOC)	Appearance (colour, turbidity, odour, etc)
Stabilisation Criteria (3 Consecutive Readings)			-	***±3%***	***±0.05***	***±10***	***±10%***		
17:44	0.3	0.0	-	-	-	-	-	4.16	
17:47	0.3	0.9	16.9	1372	7.42	-91	2.27	4.23	Pale Brown, Med Turb, Nil Odour
17:50	0.3	1.8	16.8	1373	7.42	-99	1.53	4.26	" " "
17:53	0.3	2.7	16.8	1342	7.42	-91	1.52	4.29	" " "
17:56	0.3	3.6	16.7	1339	7.47	-90	1.51	4.31	" " "
17:59	0.3	4.5	16.7	1338	7.42	-89	1.49	4.34	" " "
Total Volume Purged (L):		4.5							Pale Brown, Med Turb, Nil Odour

Sample Containers Used

Preservative	Sample Container
Nil	500ml P
HNO3 (Metals)	50ml P
H_2SO_4	
HCl (VOC)	2x40ml Vial
Other	2x PFAS

No. of Sample Containers: _____

Volume of Sample Collected (L): _____

Observations and Comments

Weather Conditions: Fine. Air Temp °C: 24

General Comments:

Stablisation Criteria adopted from EPA Publication 669 – Groundwater Sampling Guidelines 2000

APPENDIX E SURVEY DATA

Point	East	North	Casing	Ground RL
CAG-CAT01-MW01	699012.776	6091684.28	565.389	565.462
CAG-CAT01-MW02	698975.835	6091646.25	564.921	565
CAG-CAT01-MW03	699012.382	6091575.53	564.983	565.075

DISCLAIMER:
This plan of survey and its associated digital data was prepared under instruction to meet specification as agreed. This information should not be used or relied upon by any other party.

Boundaries have not been surveyed therefore further survey and marking of boundaries may be required.

The symbols used in this plan and associated digital data do not necessarily reflect the size and orientation of the object they represent.

Tree canopies are shown as a circular representation only and may not reflect irregular canopies.

Services shown hereon have been determined from visual evidence only. Prior to any demolition, excavation or construction on the site the relevant authority should be contacted to establish detailed location and depth.

Survey data including services shown on this plan is correct at the date of survey. Site conditions may have altered since the date of survey & we advise that the survey data may need verification.

Plan to be read in conjunction with the digital data.

CAG-CAT01-MW01
CAG-CAT01-MW02
CAG-CAT01-MW03

LEGEND
- STORMWATER MANHOLE
- TREE
- STOP VALVE
- LIGHT POLE
- ROAD SIGN
- IRRIGATION CONTROL BOX
- SEWER MANHOLE
- FIRE HYDRANT
- SINGLE SHRUB <5M
- LB LITTER BIN
- B BOLLARD
- GRATED PIT
- C COLUMN
- ST SEAT
- FP FLAGPOLE

CLIENT
CANBERRA AIRPORT

REVISION	DATE	ZONE

Contour Interval 0.25m BM 61
Datum A.H.D RL 565.483
Scale 1:300 0 5 10

Surveyed	K INGRAM	05/05/2017
Drawn	R JALLAND	10/05/2017
Checked	R JALLAND	13/09/2019
Approved	.....	

Surveyor, Registered under the Surveyors Act 2007.

veris
CANBERRA
11-13 Lawry Place,
Macquarie, ACT, 2614
Phone 02 6202 7600

BORE HOLE LOCATIONS

BLK 587, SEC 1
MAJURA PARK
CANBERRA AIRPORT
ACT

Proj No. 298034.135A **Rev**

Sheet No. 1 of 1

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APPENDIX F TABULATED ANALYTICAL RESULTS

Tabulated Analytical Results
Soil - Ecological Criteria

							Inorganics									
							Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
							%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL							0.1	0.5				0.5	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																
PFAS NEMP 2018 Table 3 Interim EDE Public open space																
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**												
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	15	<0.5	9.3	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	9.2	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	19	<0.5	8.6	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	9.7	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	8.5	-	-	8	32	-	7.4	1.5	0.2	0.4		
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	20	<0.5	8.8	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	19	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	7.7	40	-	5.1	9.8	0.5	2.7		
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	7.4	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	16	<0.5	9.1	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	22	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	18	<0.5	8.9	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	13	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	15	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	18	<0.5	9.3	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	14	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	11	<0.5	9.2	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	24	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	8.5	<0.5	8.8	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	8.8	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	23	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	17	<0.5	8.7	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	8	-	-	7.6	27	-	12	2.9	0.4	0.4		
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	11	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	24	<0.5	9.5	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	17	-	-	8.4	43	-	28	10	0.4	1.3		
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-		

Tabulated Analytical Results
Soil - Ecological Criteria

						Inorganics									
						Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
						%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL						0.1	0.5				0.5	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils															
NEPM 2013 EILs - Commercial and Industrial - Natural Soils															
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m															
PFAS NEMP 2018 Table 3 Interim EDE Public open space															
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial															
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**											
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	14	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	15	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	9.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	25	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	19	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	9.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	15	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	7.8	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	11	-	-	8	28	-	15	4.8	0.3	1.5
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	18	<0.5	9.2	8	42	<0.5	18	11	0.5	0.7
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	19	<0.5	9.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	11	<0.5	9.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	19	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	5.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	10	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	16	<0.5	9.4	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	5.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	15	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	3.9	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8.4	-	-	8.3	38	-	8.7	3.1	0.2	1.2
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	19	<0.5	9.3	8.2	49	<0.5	6.9	12	0.5	4.9
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	8.5	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	20	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	12	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					PFAS Compounds																												
					4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																	
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																	
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																	
PFAS NEMP 2018 Table 3 Interim EDE Public open space														1																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial														0.14																			
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																													
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<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	0.009	0.009
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<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	0.014	0.014
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	0.007
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<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	0.02	0.02
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<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	0.013	0.013
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<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	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<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	0.022	0.022
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Ecological Criteria

MEINHARDT

					PFAS Compounds																													
					4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005	0.005
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																		
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																		
PFAS NEMP 2018 Table 3 Interim EDE Public open space									10	1																								
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial										0.14																								
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																														
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.03	0.025
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<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	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	0.012
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027	0.021
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026	<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	0.026	0.026
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	0.023
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Ecological Criteria

		Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
		Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
		-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																							
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m										**215**	**170**	**1700**	**3300**				**75**	**135**	**165**			**180**	
PFAS NEMP 2018 Table 3 Interim EDE Public open space																							
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																							
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																			
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	9.5	3700	<25	<50	<100	<100	<50	<25	<50	100	100	<25	<50	200	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	18	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	16	11,000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	39	1300	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-

Tabulated Analytical Results
Soil - Ecological Criteria

			Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
			Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
			-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																								
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m											**215**	**170**	**1700**	**3300**				**75**	**135**	**165**			**180**	
PFAS NEMP 2018 Table 3 Interim EDE Public open space																								
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																								

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																				
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	No	22	4200	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	-	30	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	13	1900	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	-	25	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Metals											PAH															PAH/Phenols		
					Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils					**160**					**1800**			**380**															**370**						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils					**160**					**1800**			**580**															**370**						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																				**0.7**														
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																		
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																		
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																														
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	12	2	<0.4	<1	-	23	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	4	1	<0.4	-	-	20	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	12	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<4	1	<0.4	-	-	6	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	-	19	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	17	1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	8	2	<0.4	-	-	18	<0.1	<1	29	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	6	1	<0.4	-	32,000	17	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	9	2	<0.4	-	-	40	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	4	1	<0.4	-	-	9	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	39,000	16	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	7	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	27	1	<0.4	-	-	19	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	-	-	25	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	6	<1	<0.4	<1	-	10	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	4	1	<0.4	-	-	13	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	6	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	<1	-	10	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	11	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	4	1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	4	1	<0.4	<1	-	18	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	11	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	5	1	<0.4	<1	-	17	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	10	<1	<0.4	-	-	19	<0.1	<1	31	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	18	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	15	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	5	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	10	1	<0.4	<1	-	29	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	19	1	<0.4	-	-	27	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	23,000	14	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	9	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	24	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	<1	-	11	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	19,000	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	6	<1	<0.4	-	-	13	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

						Metals											PAH															PAH/Phenols		
						Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils						160					1800			380															370						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils						160					1800			580															370						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																					0.7														
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																			
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																															
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	17	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	7	<1	<0.4	<1	-	20	<0.1	<1	21	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	8	2	<0.4	-	-	24	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	14	1	<0.4	-	-	23	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	6	<1	<0.4	<1	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	15	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	14	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	11	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	8	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	21	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	6	1	<0.4	-	-	15	<0.1	<1	42	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	4	1	<0.4	<1	-	13	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	-	17	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	4	<1	<0.4	-	-	11	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<4	<1	<0.4	-	22,000	14	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	14	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<4	1	<0.4	-	-	9	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<4	<1	<0.4	-	-	7	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	39,000	31	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	8	1	<0.4	-	-	26	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	-	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	1	<0.4	-	-	25	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	5	1	<0.4	-	-	15	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	18	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	4	<1	<0.4	-	-	21	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	8	2	<0.4	<1	-	16	<0.1	<1	36	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	5	2	<0.4	-	-	13	<0.1	<1	49	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	8	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	20	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	<1	-	10	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	5	<1	<0.4	-	-	10	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	17	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	8	1	<0.4	-	-	17	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	17	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	6	1	<0.4	-	-	16	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8	2	<0.4	-	23,000	18	<0.1	<1	34	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	7	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	5	1	<0.4	<1	26,000	14	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	21	1	<0.4	-	-	27	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	8	1	<0.4	-	-	22	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	20	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	<1	-	14	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	5	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	9	<1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					B(a)P TEQ			Phenols														
					Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																						
PFAS NEMP 2018 Table 3 Interim EDE Public open space																						
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																						
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																		
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					B(a)P TEQ			Phenols														
					Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																						
PFAS NEMP 2018 Table 3 Interim EDE Public open space																						
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																						
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																		
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Organochlorine Pesticides																				Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils													640																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils													640																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																			
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																			
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																															
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Organochlorine Pesticides																				Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils													640																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils													640																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																			
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																			
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																															
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Polychlorinated Biphenyls								Chlorinated Hydrocarbons											Explosives		Halogenated Benzenes					Herbicides				Solvents
					Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																				
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																				
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																				
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																				
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																																
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

	Polychlorinated Biphenyls								Chlorinated Hydrocarbons												Explosives		Halogenated Benzenes					Herbicides				Solvents
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																														
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

							Inorganics									
							Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
							%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL							0.1	0.5				0.5	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																
PFAS NEMP 2018 Table 3 Interim EDE Public open space																
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**												
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	15	<0.5	9.3	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	9.2	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	19	<0.5	8.6	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	9.7	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	8.5	-	-	8	32	-	7.4	1.5	0.2	0.4		
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	20	<0.5	8.8	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	19	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	7.7	40	-	5.1	9.8	0.5	2.7		
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	7.4	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	16	<0.5	9.1	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	22	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	18	<0.5	8.9	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	13	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	15	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	18	<0.5	9.3	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	14	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	11	<0.5	9.2	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	24	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	8.5	<0.5	8.8	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	8.8	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	23	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	17	<0.5	8.7	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	8	-	-	7.6	27	-	12	2.9	0.4	0.4		
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	11	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	24	<0.5	9.5	-	-	<0.5	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	17	-	-	8.4	43	-	28	10	0.4	1.3		
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	17	-	-	-	-	-	-	-	-	-		
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-		

Tabulated Analytical Results
Soil - Ecological Criteria

						Inorganics									
						Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
						%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL						0.1	0.5				0.5	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils															
NEPM 2013 EILs - Commercial and Industrial - Natural Soils															
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m															
PFAS NEMP 2018 Table 3 Interim EDE Public open space															
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial															
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**											
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	14	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	15	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	9.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	25	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	19	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	9.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	15	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	7.8	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	11	-	-	8	28	-	15	4.8	0.3	1.5
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	18	<0.5	9.2	8	42	<0.5	18	11	0.5	0.7
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	19	<0.5	9.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	11	<0.5	9.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	19	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	5.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	10	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	16	<0.5	9.4	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	5.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	15	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	3.9	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8.4	-	-	8.3	38	-	8.7	3.1	0.2	1.2
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	19	<0.5	9.3	8.2	49	<0.5	6.9	12	0.5	4.9
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	8.5	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	20	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	12	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					PFAS Compounds																												
					4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																	
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																	
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																	
PFAS NEMP 2018 Table 3 Interim EDE Public open space														1																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial														0.14																			
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																													
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<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	0.009	0.009
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<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	0.014	0.014
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	0.007
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<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	0.02	0.02
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<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	0.013	0.013
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<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	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<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	0.022	0.022
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Ecological Criteria

MEINHARDT

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description	PFAS Compounds: 4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005	0.005
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																		
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																		
PFAS NEMP 2018 Table 3 Interim EDE Public open space													10	1																				
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial														0.14																				
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.03	0.025
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<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	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	0.012
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027	0.021
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026	<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	0.026	0.026
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	0.023
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Ecological Criteria

		Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
		Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
		-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																							
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m										**215**	**170**	**1700**	**3300**				**75**	**135**	**165**			**180**	
PFAS NEMP 2018 Table 3 Interim EDE Public open space																							
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																							
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																			
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	9.5	3700	<25	<50	<100	<100	<50	<25	<50	100	100	<25	<50	200	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	18	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	16	11,000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	39	1300	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-

Tabulated Analytical Results
Soil - Ecological Criteria

			Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
			Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
			-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																								
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m											**215**	**170**	**1700**	**3300**				**75**	**135**	**165**			**180**	
PFAS NEMP 2018 Table 3 Interim EDE Public open space																								
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																								

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																				
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	No	22	4200	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	-	30	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	13	1900	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	-	25	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Metals											PAH															PAH/Phenols		
					Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils					**160**					**1800**			**380**															**370**						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils					**160**					**1800**			**580**															**370**						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																				**0.7**														
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																		
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																		
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																														
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	12	2	<0.4	<1	-	23	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	4	1	<0.4	-	-	20	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	12	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<4	1	<0.4	-	-	6	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	-	19	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	17	1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	8	2	<0.4	-	-	18	<0.1	<1	29	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	6	1	<0.4	-	32,000	17	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	9	2	<0.4	-	-	40	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	4	1	<0.4	-	-	9	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	39,000	16	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	7	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	27	1	<0.4	-	-	19	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	-	-	25	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	6	<1	<0.4	<1	-	10	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	4	1	<0.4	-	-	13	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	6	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	<1	-	10	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	11	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	4	1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	4	1	<0.4	<1	-	18	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	11	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	5	1	<0.4	<1	-	17	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	10	<1	<0.4	-	-	19	<0.1	<1	31	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	18	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	15	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	5	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	10	1	<0.4	<1	-	29	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	19	1	<0.4	-	-	27	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	23,000	14	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	9	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	24	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	<1	-	11	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	19,000	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	6	<1	<0.4	-	-	13	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

						Metals											PAH															PAH/Phenols		
						Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL						4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils						160					1800			380															370						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils						160					1800			580															370						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																					0.7														
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																			
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																															
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	17	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	7	<1	<0.4	<1	-	20	<0.1	<1	21	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	8	2	<0.4	-	-	24	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	14	1	<0.4	-	-	23	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	6	<1	<0.4	<1	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	15	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	14	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	11	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	8	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	21	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	6	1	<0.4	-	-	15	<0.1	<1	42	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	4	1	<0.4	<1	-	13	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	-	17	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	4	<1	<0.4	-	-	11	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<4	<1	<0.4	-	22,000	14	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	14	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<4	1	<0.4	-	-	9	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<4	<1	<0.4	-	-	7	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	39,000	31	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	8	1	<0.4	-	-	26	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	-	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	1	<0.4	-	-	25	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	5	1	<0.4	-	-	15	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	18	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	4	<1	<0.4	-	-	21	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	8	2	<0.4	<1	-	16	<0.1	<1	36	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	5	2	<0.4	-	-	13	<0.1	<1	49	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	8	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	20	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	<1	-	10	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	5	<1	<0.4	-	-	10	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	17	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	8	1	<0.4	-	-	17	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	17	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	6	1	<0.4	-	-	16	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8	2	<0.4	-	23,000	18	<0.1	<1	34	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	7	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	5	1	<0.4	<1	26,000	14	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	21	1	<0.4	-	-	27	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	8	1	<0.4	-	-	22	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	20	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	<1	-	14	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	5	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	9	<1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					B(a)P TEQ			Phenols														
					Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																						
PFAS NEMP 2018 Table 3 Interim EDE Public open space																						
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																						
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																		
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					B(a)P TEQ			Phenols														
					Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																						
PFAS NEMP 2018 Table 3 Interim EDE Public open space																						
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																						
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																		
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Organochlorine Pesticides																				Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils													640																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils													640																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																			
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																			
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																															
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Organochlorine Pesticides																				Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 EILs - Commercial and Industrial - Fill Soils													640																						
NEPM 2013 EILs - Commercial and Industrial - Natural Soils													640																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																			
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																			
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																			
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																															
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

					Polychlorinated Biphenyls								Chlorinated Hydrocarbons											Explosives		Halogenated Benzenes					Herbicides				Solvents
					Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																				
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																				
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																				
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																				
Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																																
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Ecological Criteria

	Polychlorinated Biphenyls								Chlorinated Hydrocarbons												Explosives		Halogenated Benzenes					Herbicides				Solvents
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
NEPM 2013 EILs - Commercial and Industrial - Fill Soils																																
NEPM 2013 EILs - Commercial and Industrial - Natural Soils																																
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil 0-2m																																
PFAS NEMP 2018 Table 3 Interim EDE Public open space																																
PFAS NEMP 2018 Table 3 Interim EIE Commercial/Industrial																																

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																														
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

	Inorganics									
	Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
	%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL	0.1	0.5				0.5	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)		**2500**								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand										
0-1m										
1-2m										
2-4m										
>4m										

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description									
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	15	<0.5	9.3	-	-	<0.5	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	19	<0.5	8.6	-	-	<0.5	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	9.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	8.5	-	-	8	32	-	7.4	1.5	0.2	0.4
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	20	<0.5	8.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	7.7	40	-	5.1	9.8	0.5	2.7
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	16	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	18	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	18	<0.5	9.3	-	-	<0.5	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	11	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	8.5	<0.5	8.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	17	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	8	-	-	7.6	27	-	12	2.9	0.4	0.4
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	24	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	17	-	-	8.4	43	-	28	10	0.4	1.3
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	14	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	15	<0.5	8.9	-	-	<0.5	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

	Inorganics									
	Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
	%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL	0.1	0.5				0.5	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)		**2500**								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand										
0-1m										
1-2m										
2-4m										
>4m										

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description									
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	9.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	25	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	19	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	9.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	15	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	7.8	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	11	-	-	8	28	-	15	4.8	0.3	1.5
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	18	<0.5	9.2	8	42	<0.5	18	11	0.5	0.7
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	19	<0.5	9.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	11	<0.5	9.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	19	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	5.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	10	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	16	<0.5	9.4	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	5.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	15	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	3.9	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8.4	-	-	8.3	38	-	8.7	3.1	0.2	1.2
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	19	<0.5	9.3	8.2	49	<0.5	6.9	12	0.5	4.9
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	8.5	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	20	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	12	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

PFAS Compounds (columns 1–15)

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description	4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Sum of PFHxS and PFOS	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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
Airports (Environment Protection) regulations 1997 (General)																			
PFAS NEMP 2018 Table 2 Health Industrial/Commercial													50			20			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																			
0-1m																			
1-2m																			
2-4m																			
>4m																			
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	0.009	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<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
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<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
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<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
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.014	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	0.013	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<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
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<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
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<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
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<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
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<0.005	0.018	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<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
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<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
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<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
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.023	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<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
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<0.005	0.02	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<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
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<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
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	0.013	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<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
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<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
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<0.005	0.022	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<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
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<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
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<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
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<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
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	0.019	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<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
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<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
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<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
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<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
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<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

PFAS Compounds (columns 16–31)

Field ID	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	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
Airports (Environment Protection) regulations 1997 (General)																
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																
0-1m																
1-2m																
2-4m																
>4m																
CAG-CAT01-SB01-0.2	<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	0.009	0.009
CAG-CAT01-SB01-0.5	<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
CAG-CAT01-SB01-1.0	<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
CAG-CAT01-SB01-1.5	<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
CAG-CAT01-SB01-2.0	<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
CAG-CAT01-SB01-3.0	<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
CAG-CAT01-SB01-4.0	<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
CAG-CAT01-SB02-0.2	<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	0.014	0.014
CAG-CAT01-SB02-0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	0.007
CAG-CAT01-SB02-1.0	<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
CAG-CAT01-SB02-1.5	<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
CAG-CAT01-SB02-2.0	<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
CAG-CAT01-SB02-3.0	<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
CAG-CAT01-SB02-4.0	<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
CAG-CAT01-SB02-7.0	<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
CAG-CAT01-SB03-0.2	<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	0.018	0.018
CAG-CAT01-SB03-0.5	<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
CAG-CAT01-SB03-1.0	<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
CAG-CAT01-SB03-1.5	<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
CAG-CAT01-SB03-2.0	<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
CAG-CAT01-SB03-3.0	<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
CAG-CAT01-SB03-4.0	<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
CAG-CAT01-SB04-0.2	<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	0.023	0.023
CAG-CAT01-SB04-0.5	<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
CAG-CAT01-SB04-1.0	<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
CAG-CAT01-SB04-1.5	<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
CAG-CAT01-SB04-2.0	<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
CAG-CAT01-SB04-3.0	<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
CAG-CAT01-SB04-4.0	<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
CAG-CAT01-SB05-0.2	<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	0.02	0.02
CAG-CAT01-SB05-0.5	<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
CAG-CAT01-SB05-1.0	<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
CAG-CAT01-SB05-1.5	<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
CAG-CAT01-SB05-2.0	<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
CAG-CAT01-SB05-3.0	<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
CAG-CAT01-SB05-4.0	<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
CAG-CAT01-SB06-0.2	<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	0.013	0.013
CAG-CAT01-SB06-0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005
CAG-CAT01-SB06-1.0	<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
CAG-CAT01-SB06-1.5	<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
CAG-CAT01-SB06-2.0	<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
CAG-CAT01-SB06-3.0	<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
CAG-CAT01-SB06-4.0	<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
CAG-CAT01-SB06-6.0	<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
CAG-CAT01-SB07-0.2	<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	0.022	0.022
CAG-CAT01-SB07-0.5	<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
CAG-CAT01-SB07-1.0	<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
CAG-CAT01-SB07-1.5	<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
CAG-CAT01-SB07-2.0	<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
CAG-CAT01-SB07-3.0	<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
CAG-CAT01-SB07-4.0	<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
CAG-CAT01-SB08-0.2	<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	0.019	0.019
CAG-CAT01-SB08-0.5	<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
CAG-CAT01-SB08-1.0	<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
CAG-CAT01-SB08-1.5	<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
CAG-CAT01-SB08-2.0	<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
CAG-CAT01-SB08-3.0	<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
CAG-CAT01-SB08-4.0	<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

Tabulated Analytical Results
Soil - Human Health Criteria

MEINHARDT

					PFAS Compounds																														
					4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Sum of PFHxS and PFOS	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Airports (Environment Protection) regulations 1997 (General)																																			
PFAS NEMP 2018 Table 2 Health Industrial/Commercial									50			20																							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																			
0-1m																																			
1-2m																																			
2-4m																																			
>4m																																			
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																															
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.025	<0.005	0.03	<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	0.03	0.025
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	0.012
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	0.027	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027	0.021
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026	<0.005	0.026	<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	0.026	0.026
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.032	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	0.023
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Human Health Criteria

		Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
		Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
		-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
Airports (Environment Protection) regulations 1997 (General)					**800**				**5000**								**1**	**130**	**50**			**25**	
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																							
0-1m										**260**	**NL**						**3**	**NL**	**NL**			**230**	
1-2m										**370**	**NL**						**3**	**NL**	**NL**			**NL**	
2-4m										**630**	**NL**						**3**	**NL**	**NL**			**NL**	
>4m										**NL**	**NL**						**3**	**NL**	**NL**			**NL**	
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																			
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	9.5	3700	<25	<50	<100	<100	<50	<25	<50	100	100	<25	<50	200	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	18	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	16	11,000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	39	1300	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5

Tabulated Analytical Results
Soil - Human Health Criteria

		Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
		Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
		-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
Airports (Environment Protection) regulations 1997 (General)					**800**				**5000**								**1**	**130**	**50**			**25**	
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																							
0-1m										**260**	**NL**						**3**	**NL**	**NL**			**230**	
1-2m										**370**	**NL**						**3**	**NL**	**NL**			**NL**	
2-4m										**630**	**NL**						**3**	**NL**	**NL**			**NL**	
>4m										**NL**	**NL**						**3**	**NL**	**NL**			**NL**	
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																			
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	No	22	4200	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	-	30	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	13	1900	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	-	25	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-

Tabulated Analytical Results
Soil - Human Health Criteria

	Metals											PAH																PAH/Phenols		
	Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
Airports (Environment Protection) regulations 1997 (General)	**500**		**500**			**1500**	**75**		**3000**							**5**									**100**					
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																														
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	**3000**	**500**	**900**	**3600**		**1500**	**730**		**6000**	**10000**															**4000**			**25000**		**35000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																														
0-1m																								**NL**						
1-2m																								**NL**						
2-4m																								**NL**						
>4m																								**NL**						

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																												
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	12	2	<0.4	<1	-	23	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	4	1	<0.4	-	-	20	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	12	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<4	1	<0.4	-	-	6	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	-	19	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	17	1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	8	2	<0.4	-	-	18	<0.1	<1	29	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	6	1	<0.4	-	32,000	17	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	9	2	<0.4	-	-	40	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	4	1	<0.4	-	-	9	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	39,000	16	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	7	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	27	1	<0.4	-	-	19	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	-	-	25	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	6	<1	<0.4	<1	-	10	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	4	1	<0.4	-	-	13	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	6	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	<1	-	10	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	11	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	4	1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	4	1	<0.4	<1	-	18	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	11	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	5	1	<0.4	<1	-	17	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	10	<1	<0.4	-	-	19	<0.1	<1	31	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	18	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	15	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	5	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	10	1	<0.4	<1	-	29	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	19	1	<0.4	-	-	27	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	23,000	14	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	9	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	24	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	<1	-	11	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	19,000	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	6	<1	<0.4	-	-	13	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	17	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	7	<1	<0.4	<1	-	20	<0.1	<1	21	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	8	2	<0.4	-	-	24	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	14	1	<0.4	-	-	23	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	6	<1	<0.4	<1	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5

Tabulated Analytical Results
Soil - Human Health Criteria

	Metals											PAH																PAH/Phenols		
	Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
Airports (Environment Protection) regulations 1997 (General)	**500**		**500**			**1500**	**75**		**3000**							**5**									**100**					
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																														
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	**3000**	**500**	**900**	**3600**		**1500**	**730**		**6000**	**10000**															**4000**			**25000**		**35000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																														
0-1m																								**NL**						
1-2m																								**NL**						
2-4m																								**NL**						
>4m																								**NL**						

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																												
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	15	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	14	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	11	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	8	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	21	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	6	1	<0.4	-	-	15	<0.1	<1	42	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	4	1	<0.4	<1	-	13	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	-	17	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	4	<1	<0.4	-	-	11	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<4	<1	<0.4	-	22,000	14	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	14	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<4	1	<0.4	-	-	9	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<4	<1	<0.4	-	-	7	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	39,000	31	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	8	1	<0.4	-	-	26	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	-	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	1	<0.4	-	-	25	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	5	1	<0.4	-	-	15	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	18	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	4	<1	<0.4	-	-	21	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	8	2	<0.4	<1	-	16	<0.1	<1	36	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	5	2	<0.4	-	-	13	<0.1	<1	49	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	8	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	20	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	<1	-	10	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	5	<1	<0.4	-	-	10	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	17	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	8	1	<0.4	-	-	17	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	17	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	6	1	<0.4	-	-	16	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8	2	<0.4	-	23,000	18	<0.1	<1	34	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	7	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	5	1	<0.4	<1	26,000	14	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	21	1	<0.4	-	-	27	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	8	1	<0.4	-	-	22	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	20	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	<1	-	14	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	5	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	9	<1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

	B(a)P TEQ			Phenols														
	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
Airports (Environment Protection) regulations 1997 (General)																		**42500**
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																	**660**	**240000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																		
0-1m																		
1-2m																		
2-4m																		
>4m																		

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description															
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2

Tabulated Analytical Results
Soil - Human Health Criteria

	B(a)P TEQ			Phenols															
	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
Airports (Environment Protection) regulations 1997 (General)																		**42500**
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																	**660**	**240000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																		
0-1m																		
1-2m																		
2-4m																		
>4m																		

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

					Organochlorine Pesticides																				Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)							**50**						**1000**		**20**								**50**													
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil														**3600**					**100**				**50**		**2500**			**2000**								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Tabulated Analytical Results
Soil - Human Health Criteria

					Organochlorine Pesticides																			Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)							**50**						**1000**		**20**							**50**														
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil														**3600**					**100**			**50**		**2500**			**2000**									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

					Polychlorinated Biphenyls								Chlorinated Hydrocarbons												Explosives		Halogenated Benzenes					Herbicides					Solvents
					Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
Airports (Environment Protection) regulations 1997 (General)												**50**																								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												**7**																			**80**	**5000**	**9000**			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5

Tabulated Analytical Results
Soil - Human Health Criteria

					Polychlorinated Biphenyls								Chlorinated Hydrocarbons												Explosives		Halogenated Benzenes					Herbicides					Solvents
					Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
Airports (Environment Protection) regulations 1997 (General)												**50**																								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												**7**																			**80**	**5000**	**9000**			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

	Inorganics									
	Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
	%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL	0.1	0.5				0.5	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)		**2500**								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand										
0-1m										
1-2m										
2-4m										
>4m										

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description									
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	15	<0.5	9.3	-	-	<0.5	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	19	<0.5	8.6	-	-	<0.5	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	9.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	8.5	-	-	8	32	-	7.4	1.5	0.2	0.4
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	20	<0.5	8.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	7.7	40	-	5.1	9.8	0.5	2.7
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	16	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	18	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	18	<0.5	9.3	-	-	<0.5	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	11	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	8.5	<0.5	8.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	17	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	8	-	-	7.6	27	-	12	2.9	0.4	0.4
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	24	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	17	-	-	8.4	43	-	28	10	0.4	1.3
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	14	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	15	<0.5	8.9	-	-	<0.5	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

	Inorganics									
	Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
	%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100	meq/100	meq/100	meq/100
EQL	0.1	0.5				0.5	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)		**2500**								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand										
0-1m										
1-2m										
2-4m										
>4m										

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description									
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	9.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	25	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	19	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	9.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	15	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	7.8	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	11	-	-	8	28	-	15	4.8	0.3	1.5
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	18	<0.5	9.2	8	42	<0.5	18	11	0.5	0.7
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	19	<0.5	9.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	11	<0.5	9.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	19	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	5.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	10	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	16	<0.5	9.4	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	5.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	15	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	3.9	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8.4	-	-	8.3	38	-	8.7	3.1	0.2	1.2
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	19	<0.5	9.3	8.2	49	<0.5	6.9	12	0.5	4.9
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	8.5	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	20	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	12	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

					PFAS Compounds																														
					4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Sum of PFHxS and PFOS	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Airports (Environment Protection) regulations 1997 (General)																																			
PFAS NEMP 2018 Table 2 Health Industrial/Commercial									**50**			**20**																							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																			
0-1m																																			
1-2m																																			
2-4m																																			
>4m																																			
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																															
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	0.009	<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	0.009	0.009
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.014	<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	0.014	0.014
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	0.007
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<0.005	0.02	<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	0.02	0.02
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	0.013	<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	0.013	0.013
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	<0.005	0.022	<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	0.022	0.022
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Human Health Criteria

MEINHARDT

					PFAS Compounds																														
					4:2 Fluorotelomer sulfonate (4:2 FtS)	6:2 Fluorotelomer sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonate (10:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Sum of PFHxS and PFOS	N-Me perfluorooctanesulfonamid -oethanol	NEtFOSAA	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NMeFOSAA	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanesulfonic acid*	Perfluorohexane sulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					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	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Airports (Environment Protection) regulations 1997 (General)																																			
PFAS NEMP 2018 Table 2 Health Industrial/Commercial													50			20																			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																			
0-1m																																			
1-2m																																			
2-4m																																			
>4m																																			
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																															
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	0.024	<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	0.024	0.024
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.025	<0.005	0.03	<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	0.03	0.025
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<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	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.023	<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	0.023	0.023
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	0.019	<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	0.019	0.019
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	0.012
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	0.027	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027	0.021
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026	<0.005	0.026	<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	0.026	0.026
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<0.005	0.018	<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	0.018	0.018
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	0.032	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	0.023
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tabulated Analytical Results
Soil - Human Health Criteria

		Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
		Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
		-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
Airports (Environment Protection) regulations 1997 (General)					**800**				**5000**								**1**	**130**	**50**			**25**	
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																							
0-1m										**260**	**NL**						**3**	**NL**	**NL**			**230**	
1-2m										**370**	**NL**						**3**	**NL**	**NL**			**NL**	
2-4m										**630**	**NL**						**3**	**NL**	**NL**			**NL**	
>4m										**NL**	**NL**						**3**	**NL**	**NL**			**NL**	
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																			
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	9.5	3700	<25	<50	<100	<100	<50	<25	<50	100	100	<25	<50	200	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	18	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	16	11,000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	39	1300	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5

Tabulated Analytical Results
Soil - Human Health Criteria

		Asbestos	Soil Properties		TPH					TRH							BTEX						MAH
		Asbestos fibres	CEC	TOC	TPH C6-C9	TPH C10 - C14	TPH C15 - C28	TPH C29 - C36	TPH C10 - C36 (Sum of Total)	F1 (TRH C6-C10 less BTEX)	F2 (TRH C10-C16 less Naphthalene)	F3 (TRH C16-C34)	F4 (TRH C34-C40)	TRH C6-C10	TRH C10-C16	TRH C10 - C40 (Sum of total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Styrene
		-	meq/100g	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1000	25	50	100	100	50	25	50	100	100	25	50	50	0.2	0.5	1	1	2	1	0.5
Airports (Environment Protection) regulations 1997 (General)					**800**				**5000**								**1**	**130**	**50**			**25**	
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																							
0-1m										**260**	**NL**						**3**	**NL**	**NL**			**230**	
1-2m										**370**	**NL**						**3**	**NL**	**NL**			**NL**	
2-4m										**630**	**NL**						**3**	**NL**	**NL**			**NL**	
>4m										**NL**	**NL**						**3**	**NL**	**NL**			**NL**	
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																			
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	No	22	4200	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	-	30	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	13	1900	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	-	25	<1000	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	No	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	<25	<50	<100	<100	<50	<25	<50	<100	<100	<25	<50	<50	<0.2	<0.5	<1	<1	<2	<1	-

Tabulated Analytical Results
Soil - Human Health Criteria

	Metals											PAH																PAH/Phenols		
	Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
Airports (Environment Protection) regulations 1997 (General)	**500**		**500**			**1500**	**75**		**3000**							**5**									**100**					
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																														
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	**3000**	**500**	**900**	**3600**		**1500**	**730**		**6000**	**10000**															**4000**			**25000**		**35000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																														
0-1m																								**NL**						
1-2m																								**NL**						
2-4m																								**NL**						
>4m																								**NL**						

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																												
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	12	2	<0.4	<1	-	23	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	4	1	<0.4	-	-	20	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	12	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<4	1	<0.4	-	-	6	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	-	19	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	17	1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	8	2	<0.4	-	-	18	<0.1	<1	29	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	6	1	<0.4	-	32,000	17	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	9	2	<0.4	-	-	40	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	4	1	<0.4	-	-	9	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	39,000	16	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	7	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	27	1	<0.4	-	-	19	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	16	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	-	-	25	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	4	1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	10	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	6	<1	<0.4	<1	-	10	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	4	1	<0.4	-	-	13	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	6	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	7	1	<0.4	<1	-	10	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	11	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	4	1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	4	1	<0.4	<1	-	18	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<4	2	<0.4	-	-	9	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	11	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	5	1	<0.4	<1	-	17	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	10	<1	<0.4	-	-	19	<0.1	<1	31	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	18	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	15	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	5	1	<0.4	-	-	12	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	10	1	<0.4	<1	-	29	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	5	<1	<0.4	-	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	19	1	<0.4	-	-	27	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	23,000	14	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	9	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	24	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	<1	-	11	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	19,000	9	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	6	<1	<0.4	-	-	13	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	17	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	7	<1	<0.4	<1	-	20	<0.1	<1	21	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	8	2	<0.4	-	-	24	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	14	1	<0.4	-	-	23	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	6	<1	<0.4	<1	-	8	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5

Tabulated Analytical Results
Soil - Human Health Criteria

	Metals											PAH																PAH/Phenols		
	Arsenic	Beryllium	Cadmium	Chromium (hexavalent)	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Phenanthrene	Pyrene	Cresol Total	Phenolics Total	Picloram
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	4	1	0.4	1	1	1	0.1	1	1	2	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.5
Airports (Environment Protection) regulations 1997 (General)	**500**		**500**			**1500**	**75**		**3000**							**5**									**100**					
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																														
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	**3000**	**500**	**900**	**3600**		**1500**	**730**		**6000**	**10000**															**4000**			**25000**		**35000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																														
0-1m																								**NL**						
1-2m																								**NL**						
2-4m																								**NL**						
>4m																								**NL**						

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																												
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	15	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	4	1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	5	1	<0.4	-	-	14	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<4	2	<0.4	-	-	11	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	8	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<4	1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<4	<1	<0.4	-	-	21	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	6	1	<0.4	-	-	15	<0.1	<1	42	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	4	1	<0.4	<1	-	13	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	13	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	9	1	<0.4	-	-	17	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	4	<1	<0.4	-	-	11	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<4	<1	<0.4	-	22,000	14	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	14	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<4	1	<0.4	-	-	9	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<4	<1	<0.4	-	-	7	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	7	1	<0.4	<1	39,000	31	<0.1	<1	20	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	8	1	<0.4	-	-	26	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<4	<1	<0.4	-	-	16	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	1	<0.4	-	-	25	<0.1	<1	19	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	5	1	<0.4	-	-	15	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	<1	-	6	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	18	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	4	<1	<0.4	-	-	21	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	8	2	<0.4	<1	-	16	<0.1	<1	36	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	13	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	5	2	<0.4	-	-	13	<0.1	<1	49	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<4	1	<0.4	-	-	8	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	20	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<4	<1	<0.4	<1	-	10	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	4	<1	<0.4	-	-	14	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	5	<1	<0.4	-	-	10	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<4	<1	<0.4	-	-	14	<0.1	<1	13	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	17	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<4	<1	<0.4	<1	-	11	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	8	1	<0.4	-	-	17	<0.1	<1	17	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	17	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	6	1	<0.4	-	-	16	<0.1	<1	24	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	<1	-	12	<0.1	<1	10	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	6	<1	<0.4	-	-	17	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	8	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	7	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	7	<1	<0.4	-	-	15	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	<1	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8	2	<0.4	-	23,000	18	<0.1	<1	34	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<4	<1	<0.4	-	-	10	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	7	<0.1	<1	14	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	4	<1	<0.4	-	-	8	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	5	1	<0.4	<1	26,000	14	<0.1	<1	16	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	21	1	<0.4	-	-	27	<0.1	<1	15	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<4	<1	<0.4	-	-	13	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	8	1	<0.4	-	-	22	<0.1	<1	30	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<4	1	<0.4	-	-	20	<0.1	<1	11	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	<1	-	14	<0.1	<1	18	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.2	<0.2	<0.5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<4	<1	<0.4	-	-	5	<0.1	<1	7	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<4	1	<0.4	-	-	9	<0.1	<1	9	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	9	<1	<0.4	-	-	12	<0.1	<1	12	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	5	<1	<0.4	-	-	9	<0.1	<1	8	<2	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

	B(a)P TEQ			Phenols														
	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
Airports (Environment Protection) regulations 1997 (General)																		**42500**
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																	**660**	**240000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																		
0-1m																		
1-2m																		
2-4m																		
>4m																		

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description															
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2

Tabulated Analytical Results
Soil - Human Health Criteria

	B(a)P TEQ			Phenols															
	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	2	0.4	4	1	0.2
Airports (Environment Protection) regulations 1997 (General)																		**42500**
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																	**660**	**240000**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																		
0-1m																		
1-2m																		
2-4m																		
>4m																		

Location	Field ID	Sampled Date	Fill/Natural	Matrix Description																
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<2	<0.4	<4	<1	<0.2
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

					Organochlorine Pesticides																				Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)							**50**						**1000**		**20**								**50**													
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil														**3600**					**100**				**50**		**2500**			**2000**								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Tabulated Analytical Results
Soil - Human Health Criteria

					Organochlorine Pesticides																			Organophosphorous Pesticides											
					4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Parathion	Ronnel
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Airports (Environment Protection) regulations 1997 (General)							**50**						**1000**		**20**							**50**														
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil														**3600**					**100**			**50**		**2500**			**2000**									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Human Health Criteria

					Polychlorinated Biphenyls								Chlorinated Hydrocarbons												Explosives		Halogenated Benzenes					Herbicides					Solvents
					Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
Airports (Environment Protection) regulations 1997 (General)												**50**																								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												**7**																			**80**	**5000**	**9000**			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5

Tabulated Analytical Results
Soil - Human Health Criteria

					Polychlorinated Biphenyls								Chlorinated Hydrocarbons												Explosives		Halogenated Benzenes					Herbicides					Solvents
					Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Carbon tetrachloride	Chloroform	Dichloromethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	2,4-Dinitrotoluene	Nitrobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	2,4,5-Trichlorophenoxy Acetic Acid	Hedonal	Fluroxypyr	Triclopyr	Methyl Ethyl Ketone
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.2	0.5	5
Airports (Environment Protection) regulations 1997 (General)												**50**																								
PFAS NEMP 2018 Table 2 Health Industrial/Commercial																																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												**7**																			**80**	**5000**	**9000**			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																																				
0-1m																																				
1-2m																																				
2-4m																																				
>4m																																				
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**																																
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.2	<0.5	<5
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Buildings and Structures Criteria

					Inorganics										
					Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
					%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100g	meq/100g	meq/100g	meq/100g
EQL					0.1	0.5				0.5	0.1	0.1	0.1	0.1
AS2159 - 2009 - Piling, Design and Installation							**<5.5**	**<5.5**						
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**										
CAG-CAT01-SB01	CAG-CAT01-SB01-0.2	9/09/2019	Fill	Clayey SILT	15	<0.5	9.3	-	-	<0.5	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-0.5	9/09/2019	Natural	Clayey SAND	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.0	9/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-2.0	9/09/2019	Natural	SAND	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-3.0	9/09/2019	Natural	Sandy CLAY	19	<0.5	8.6	-	-	<0.5	-	-	-	-
CAG-CAT01-SB01	CAG-CAT01-SB01-4.0	9/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.2	9/09/2019	Fill	Clayey SILT	9.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-0.5	9/09/2019	Fill	Clayey SILT	8.5	-	-	8	32	-	7.4	1.5	0.2	0.4
CAG-CAT01-SB02	CAG-CAT01-SB02-1.0	9/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-1.5	9/09/2019	Natural	CLAY	20	<0.5	8.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-2.0	9/09/2019	Natural	SAND	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	7.7	40	-	5.1	9.8	0.5	2.7
CAG-CAT01-SB02	CAG-CAT01-SB02-4.0	9/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB02	CAG-CAT01-SB02-7.0	9/09/2019	Natural	Clayey SAND	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.2	9/09/2019	Fill	Clayey SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-0.5	9/09/2019	Fill	Clayey SILT	16	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.0	9/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-1.5	9/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-2.0	9/09/2019	Natural	CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-3.0	9/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB03	CAG-CAT01-SB03-4.0	9/09/2019	Natural	Sandy CLAY	18	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.2	9/09/2019	Fill	Clayey SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-0.5	9/09/2019	Fill	SILT	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.0	9/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-1.5	9/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-2.0	9/09/2019	Natural	Silty CLAY	18	<0.5	9.3	-	-	<0.5	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-3.0	9/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB04	CAG-CAT01-SB04-4.0	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.2	9/09/2019	Fill	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-0.5	9/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.0	9/09/2019	Natural	Silty CLAY	11	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-1.5	9/09/2019	Natural	CLAY	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-2.0	9/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-3.0	9/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB05	CAG-CAT01-SB05-4.0	9/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.2	10/09/2019	Fill	Clayey SILT	8.5	<0.5	8.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-0.5	10/09/2019	Fill	Silty CLAY	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.0	10/09/2019	Natural	Silty CLAY	12	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-1.5	10/09/2019	Natural	CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-2.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-3.0	10/09/2019	Natural	Sandy CLAY	17	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-4.0	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB06	CAG-CAT01-SB06-6.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-0.2	10/09/2019	Fill	Clayey SILT	8	-	-	7.6	27	-	12	2.9	0.4	0.4
CAG-CAT01-SB07	CAG-CAT01-SB07-0.5	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.0	10/09/2019	Natural	Silty CLAY	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-1.5	10/09/2019	Natural	CLAY	24	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-2.0	10/09/2019	Natural	CLAY	17	-	-	8.4	43	-	28	10	0.4	1.3
CAG-CAT01-SB07	CAG-CAT01-SB07-3.0	10/09/2019	Natural	SANDSTONE	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB07	CAG-CAT01-SB07-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.2	10/09/2019	Fill	Clayey SILT	8.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-0.5	10/09/2019	Natural	SILT	14	<0.5	9.2	-	-	<0.5	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.0	10/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-1.5	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-2.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB08	CAG-CAT01-SB08-4.0	10/09/2019	Natural	Clayey SAND	15	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.2	10/09/2019	Fill	Clayey SILT	9.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-0.5	10/09/2019	Natural	Silty CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.0	10/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-1.5	10/09/2019	Natural	CLAY	25	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-2.0	10/09/2019	Natural	Silty CLAY	19	<0.5	9.1	-	-	<0.5	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB09	CAG-CAT01-SB09-4.0	10/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.2	10/09/2019	Fill	Clayey SILT	9.2	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-0.5	10/09/2019	Natural	SILT	9.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.0	10/09/2019	Natural	Clayey SILT	15	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-1.5	10/09/2019	Natural	CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-2.0	10/09/2019	Natural	CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-3.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB10	CAG-CAT01-SB10-4.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.2	10/09/2019	Fill	SILT	7.8	<0.5	9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-0.5	10/09/2019	Fill	SILT	11	-	-	8	28	-	15	4.8	0.3	1.5
CAG-CAT01-SB11	CAG-CAT01-SB11-1.0	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-1.5	10/09/2019	Natural	Clayey SAND	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-2.0	10/09/2019	Natural	Clayey SAND	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB11	CAG-CAT01-SB11-3.0	10/09/2019	Natural	Sandy CLAY	18	<0.5	9.2	8	42	<0.5	18	11	0.5	0.7
CAG-CAT01-SB11	CAG-CAT01-SB11-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Soil - Buildings and Structures Criteria

					Inorganics									
					Moisture	Cyanide Total	pH (aqueous extract)	pH (CaCl2)	Clay in soils <2um	Weak Acid Dissociable Cyanide	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
					%	mg/kg	pH Unit	pH Unit	% (w/w)	mg/kg	meq/100g	meq/100g	meq/100g	meq/100g
EQL					0.1	0.5				0.5	0.1	0.1	0.1	0.1
AS2159 - 2009 - Piling, Design and Installation							**<5.5**	**<5.5**						
Location	**Field ID**	**Sampled Date**	**Fill/Natural**	**Matrix Description**										
CAG-CAT01-SB12	CAG-CAT01-SB12-0.2	10/09/2019	Fill	SILT	7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-0.5	10/09/2019	Natural	SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.0	10/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-1.5	10/09/2019	Natural	Clayey SILT	19	<0.5	9.8	-	-	<0.5	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-2.0	10/09/2019	Natural	Sandy CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB12	CAG-CAT01-SB12-4.0	10/09/2019	Natural	CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.2	10/09/2019	Fill	SILT	7.4	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-0.5	10/09/2019	Natural	Silty CLAY	11	<0.5	9.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.0	10/09/2019	Natural	Silty CLAY	15	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-1.5	10/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-2.0	10/09/2019	Natural	CLAY	21	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-3.0	10/09/2019	Natural	Sandy CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB13	CAG-CAT01-SB13-4.0	10/09/2019	Natural	CLAY	19	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.2	10/09/2019	Fill	Clayey SILT	5.7	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-0.5	10/09/2019	Fill	SILT	13	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.0	10/09/2019	Natural	Clayey SILT	10	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-1.5	10/09/2019	Natural	Clayey SILT	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-2.0	10/09/2019	Natural	Silty CLAY	16	<0.5	9.4	-	-	<0.5	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-3.0	10/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB14	CAG-CAT01-SB14-4.0	10/09/2019	Natural	Sandy CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.2	11/09/2019	Fill	SILT	5.8	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-0.5	11/09/2019	Natural	Clayey SILT	11	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.0	11/09/2019	Natural	Clayey SILT	15	<0.5	9.5	-	-	<0.5	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-1.5	11/09/2019	Natural	Silty CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-2.0	11/09/2019	Natural	Sandy CLAY	19	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-3.0	11/09/2019	Natural	Silty CLAY	20	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB15	CAG-CAT01-SB15-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.2	11/09/2019	Fill	SILT	3.9	<0.5	8.9	-	-	<0.5	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-0.5	11/09/2019	Fill	SILT	8.4	-	-	8.3	38	-	8.7	3.1	0.2	1.2
CAG-CAT01-SB16	CAG-CAT01-SB16-1.0	11/09/2019	Natural	Silty CLAY	17	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-1.5	11/09/2019	Natural	Silty CLAY	23	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-2.0	11/09/2019	Natural	Silty CLAY	18	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB16	CAG-CAT01-SB16-3.0	11/09/2019	Natural	Sandy CLAY	19	<0.5	9.3	8.2	49	<0.5	6.9	12	0.5	4.9
CAG-CAT01-SB16	CAG-CAT01-SB16-4.0	11/09/2019	Natural	Sandy CLAY	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.2	11/09/2019	Fill	SILT	8.5	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-0.5	11/09/2019	Natural	Clayey SILT	14	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.0	11/09/2019	Natural	Clayey SILT	24	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-1.5	11/09/2019	Natural	Silty CLAY	20	<0.5	8.7	-	-	<0.5	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-2.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-3.0	11/09/2019	Natural	Silty CLAY	22	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-4.0	11/09/2019	Natural	Sandy CLAY	16	-	-	-	-	-	-	-	-	-
CAG-CAT01-SB17	CAG-CAT01-SB17-6.0	11/09/2019	Natural	Sandy CLAY	12	-	-	-	-	-	-	-	-	-

Tabulated Analytical Results
Groundwater - Ecological Criteria

				Airports (Environment Protection) Regulations 1997 - Freshwater	ANZECC 2000 FW 95%	NEPM 2013 Table 1C GILs, Fresh Waters	PFAS NEMP 2018 Table 5 Freshwater 95%			
Location								CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
Field ID								CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
Sampled Date								2/10/2019	2/10/2019	2/10/2019
Chemical Group	**Chemical Name**	**Units**	**EQL**							
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	µg/L	0.01					<0.01	<0.01	<0.01
	6:2 Fluorotelomer sulfonate (6:2 FtS)	µg/L	0.01					<0.01	<0.01	<0.01
	8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01					<0.01	<0.01	<0.01
	10:2 Fluorotelomer sulfonate (10:2 FTS)	µg/L	0.01					<0.01	<0.01	<0.01
	Perfluorobutanoic acid (PFBA)	µg/L	0.02					0.04	0.03	0.08
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01					0.11	0.16	0.38
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01					0.04	0.02	0.08
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01					0.26	0.15	0.45
	Perfluorooctanoic acid (PFOA)	µg/L	0.01				**220**	0.07	0.04	0.13
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01				**0.13**	**1.1**	**0.79**	**2.2**
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02					0.1	0.03	0.1
	Sum of PFHxS and PFOS	µg/L	0.01					2	1.5	4.8
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05					<0.05	<0.05	<0.05
	NEtFOSAA	µg/L	0.02					<0.02	<0.02	<0.02
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.1					<0.1	<0.1	<0.1
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.5					<0.5	<0.5	<0.5
	NMeFOSAA	µg/L	0.02					<0.02	<0.02	<0.02
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05					<0.05	<0.05	<0.05
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02					<0.02	<0.02	<0.02
	Perfluorodecanoic acid (PFDA)	µg/L	0.02					<0.02	<0.02	<0.02
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05					<0.05	<0.05	<0.05
	Perfluoroheptanesulfonic acid*	µg/L	0.01					0.05	0.04	0.13
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01					0.88	0.68	2.6
	Perfluorononanoic acid (PFNA)	µg/L	0.01					<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1					<0.1	<0.1	<0.1
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01					0.12	0.13	0.39
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5					<0.5	<0.5	<0.5
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1					<0.1	<0.1	<0.1
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02					<0.02	<0.02	<0.02
	Sum of PFAS	µg/L	0.01					2.8	2.1	6.5
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01					1.2	0.83	2.3
Inorganics	Hardness (Filtered)	mg/L	3					250	350	370
	Hydroxide	µg/L	5000					<5000	<5000	<5000
	Ionic Balance	%						1.1	-0.46	6.2
	pH (Lab)	pH Unit		**6.5 - 9.0**				8	7.9	8
	TDS	mg/L	5					560	810	760
Major Anions	Alkalinity (Bicarbonate as CaCO3)	mg/L	5					270	240	400
	Alkalinity (Carbonate as CaCO3)	mg/L	5					<5	<5	<5
	Alkalinity (total)	mg/L	5					270	240	400
	Chloride	mg/L	1					120	250	120
	Sulphate (Filtered)	mg/L	1					64	58	62
Major Cations	Calcium	mg/L	0.5					52	67	76
	Magnesium	mg/L	0.5					30	44	45
	Potassium	mg/L	0.5					1.3	1.6	1.8
	Sodium	mg/L	0.5					120	140	160
Metals	Aluminium (Filtered)	mg/L	0.01	**0.1**	**0.055**	**0.055**		**0.43**	<0.01	**0.83**
	Antimony (Filtered)	mg/L	0.001					<0.001	<0.001	<0.001
	Arsenic (Filtered)	mg/L	0.001	**0.05**				0.002	<0.001	0.001
	Beryllium (Filtered)	mg/L	0.0005					<0.0005	<0.0005	<0.0005
	Cadmium (Filtered)	mg/L	0.0001	**0.002**	**0.0002**	**0.0002**		<0.0001	<0.0001	<0.0001
	Chromium (III+VI) (Filtered)	mg/L	0.001	**0.01**				0.001	<0.001	0.002
	Copper (Filtered)	mg/L	0.001	**0.002**	**0.0014**	**0.0014**		<0.001	<0.001	**0.003**
	Iron (Filtered)	mg/L	0.01	**1**				0.33	<0.01	0.64
	Lead (Filtered)	mg/L	0.001	**0.001**	**0.0034**	**0.0034**		<0.001	<0.001	**0.001**
	Mercury (Filtered)	mg/L	0.00005	**0.0001**	**0.0006**	**0.00006**		<0.00005	<0.00005	<0.00005
	Nickel (Filtered)	mg/L	0.001	**0.015**	**0.011**	**0.011**		0.001	<0.001	0.003
	Selenium (Filtered)	mg/L	0.001		**0.011**	**0.005**		0.002	0.002	0.002
	Silver (Filtered)	mg/L	0.001		**0.00005**	**0.00005**		<0.001	<0.001	<0.001
	Thallium (Filtered)	mg/L	0.001					<0.001	<0.001	<0.001
	Zinc (Filtered)	mg/L	0.001	**0.005**	**0.008**	**0.008**		0.004	0.003	**0.009**
TRH	F1 (TRH C6-C10 less BTEX)	mg/L	0.01					<0.01	<0.01	<0.01
	F2 (TRH C10-C16 less Naphthalene)	mg/L	0.05					<0.05	<0.05	<0.05
	F3 (TRH C16-C34)	mg/L	0.1					<0.1	<0.1	<0.1
	F4 (TRH C34-C40)	mg/L	0.1					<0.1	<0.1	<0.1
	TRH C6-C10	mg/L	0.01					<0.01	<0.01	<0.01
	TRH C10-C16	mg/L	0.05					<0.05	<0.05	<0.05
	TRH C10 - C40 (Sum of total)	µg/L	50	**600**				<50	<50	<50
TPH	TPH C6-C9	µg/L	10	**150**				<10	<10	<10
	TPH C10 - C14	µg/L	50	**600**				<50	<50	<50
	TPH C15 - C28	µg/L	100	**600**				<100	<100	<100
	TPH C29 - C36	µg/L	100	**600**				<100	<100	<100
	TPH C10 - C36 (Sum of Total)	µg/L	50					<50	<50	<50
BTEX	Benzene	µg/L	1		**950**	**950**		<1	<1	<1
	Toluene	µg/L	1					<1	<1	<1
	Ethylbenzene	µg/L	1					<1	<1	<1
	Xylene (o)	µg/L	1		**350**	**350**		<1	<1	<1
	Xylene (m & p)	µg/L	2					<2	<2	<2
	Xylene Total	µg/L	1					<1	<1	<1
PAHs	Acenaphthene	µg/L	0.1					<0.1	<0.1	<0.1
	Acenaphthylene	µg/L	0.1					<0.1	<0.1	<0.1
	Anthracene	µg/L	0.1					<0.1	<0.1	<0.1
	Benz(a)anthracene	µg/L	0.1					<0.1	<0.1	<0.1
	Benzo(a) pyrene	µg/L	0.1					<0.1	<0.1	<0.1
	Benzo(b+k)fluoranthene	µg/L	0.2					<0.2	<0.2	<0.2
	Benzo(g,h,i)perylene	µg/L	0.1					<0.1	<0.1	<0.1
	Chrysene	µg/L	0.1					<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	µg/L	0.1					<0.1	<0.1	<0.1
	Fluoranthene	µg/L	0.1					<0.1	<0.1	<0.1
	Fluorene	µg/L	0.1					<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1					<0.1	<0.1	<0.1
	Naphthalene	µg/L	0.1		**16**	**16**		<0.1	<0.1	<0.1
	PAHs (Sum of total)	µg/L						0	0	0
	Phenanthrene	µg/L	0.1					<0.1	<0.1	<0.1
	Pyrene	µg/L	0.1					<0.1	<0.1	<0.1

Tabulated Analytical Results
Groundwater - Irrigation Criteria

				Location	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
				Field ID	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
				Sampled Date	2/10/2019	2/10/2019	2/10/2019
Chemical Group	Chemical Name	Units	EQL	ANZECC 2000 Irrigation Short Term Values			
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	µg/L	0.01		<0.01	<0.01	<0.01
	6:2 Fluorotelomer sulfonate (6:2 FtS)	µg/L	0.01		<0.01	<0.01	<0.01
	8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01		<0.01	<0.01	<0.01
	10:2 Fluorotelomer sulfonate (10:2 FTS)	µg/L	0.01		<0.01	<0.01	<0.01
	Perfluorobutanoic acid (PFBA)	µg/L	0.02		0.04	0.03	0.08
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01		0.11	0.16	0.38
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01		0.04	0.02	0.08
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01		0.26	0.15	0.45
	Perfluorooctanoic acid (PFOA)	µg/L	0.01		0.07	0.04	0.13
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01		1.1	0.79	2.2
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02		0.1	0.03	0.1
	Sum of PFHxS and PFOS	µg/L	0.01		2	1.5	4.8
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05		<0.05	<0.05	<0.05
	NEtFOSAA	µg/L	0.02		<0.02	<0.02	<0.02
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.1		<0.1	<0.1	<0.1
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.5		<0.5	<0.5	<0.5
	NMeFOSAA	µg/L	0.02		<0.02	<0.02	<0.02
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05		<0.05	<0.05	<0.05
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02		<0.02	<0.02	<0.02
	Perfluorodecanoic acid (PFDA)	µg/L	0.02		<0.02	<0.02	<0.02
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05		<0.05	<0.05	<0.05
	Perfluoroheptanesulfonic acid*	µg/L	0.01		0.05	0.04	0.13
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01		0.88	0.68	2.6
	Perfluorononanoic acid (PFNA)	µg/L	0.01		<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1		<0.1	<0.1	<0.1
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01		0.12	0.13	0.39
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5		<0.5	<0.5	<0.5
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1		<0.1	<0.1	<0.1
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02		<0.02	<0.02	<0.02
	Sum of PFAS	µg/L	0.01		2.8	2.1	6.5
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01		1.2	0.83	2.3
Inorganics	Hardness (Filtered)	mg/L	3		250	350	370
	Hydroxide	µg/L	5000		<5000	<5000	<5000
	Ionic Balance	%			1.1	-0.46	6.2
	pH (Lab)	pH Unit		**6-8.5**	8	7.9	8
	TDS	mg/L	5		560	810	760
Major Anions	Alkalinity (Bicarbonate as CaCO3)	mg/L	5		270	240	400
	Alkalinity (Carbonate as CaCO3)	mg/L	5		<5	<5	<5
	Alkalinity (total)	mg/L	5		270	240	400
	Chloride	mg/L	1	**175**	120	**250**	120
	Sulphate (Filtered)	mg/L	1		64	58	62
Major Cations	Calcium	mg/L	0.5		52	67	76
	Magnesium	mg/L	0.5		30	44	45
	Potassium	mg/L	0.5		1.3	1.6	1.8
	Sodium	mg/L	0.5	**115**	**120**	**140**	**160**
Metals	Aluminium (Filtered)	mg/L	0.01	**20**	0.43	<0.01	0.83
	Antimony (Filtered)	mg/L	0.001		<0.001	<0.001	<0.001
	Arsenic (Filtered)	mg/L	0.001	**2**	0.002	<0.001	0.001
	Beryllium (Filtered)	mg/L	0.0005	**0.5**	<0.0005	<0.0005	<0.0005
	Cadmium (Filtered)	mg/L	0.0001	**0.05**	<0.0001	<0.0001	<0.0001
	Chromium (III+VI) (Filtered)	mg/L	0.001	**1**	0.001	<0.001	0.002
	Copper (Filtered)	mg/L	0.001	**5**	<0.001	<0.001	0.003
	Iron (Filtered)	mg/L	0.01	**10**	0.33	<0.01	0.64
	Lead (Filtered)	mg/L	0.001	**5**	<0.001	<0.001	0.001
	Mercury (Filtered)	mg/L	0.00005	**0.002**	<0.00005	<0.00005	<0.00005
	Nickel (Filtered)	mg/L	0.001	**2**	0.001	<0.001	0.003
	Selenium (Filtered)	mg/L	0.001	**0.05**	0.002	0.002	0.002
	Silver (Filtered)	mg/L	0.001		<0.001	<0.001	<0.001
	Thallium (Filtered)	mg/L	0.001		<0.001	<0.001	<0.001
	Zinc (Filtered)	mg/L	0.001	**5**	0.004	0.003	0.009
TRH	F1 (TRH C6-C10 less BTEX)	mg/L	0.01		<0.01	<0.01	<0.01
	F2 (TRH C10-C16 less Naphthalene)	mg/L	0.05		<0.05	<0.05	<0.05
	F3 (TRH C16-C34)	mg/L	0.1		<0.1	<0.1	<0.1
	F4 (TRH C34-C40)	mg/L	0.1		<0.1	<0.1	<0.1
	TRH C6-C10	mg/L	0.01		<0.01	<0.01	<0.01
	TRH C10-C16	mg/L	0.05		<0.05	<0.05	<0.05
	TRH C10 - C40 (Sum of total)	µg/L	50		<50	<50	<50
TPH	TPH C6-C9	µg/L	10		<10	<10	<10
	TPH C10 - C14	µg/L	50		<50	<50	<50
	TPH C15 - C28	µg/L	100		<100	<100	<100
	TPH C29 - C36	µg/L	100		<100	<100	<100
	TPH C10 - C36 (Sum of Total)	µg/L	50		<50	<50	<50
BTEX	Benzene	µg/L	1		<1	<1	<1
	Toluene	µg/L	1		<1	<1	<1
	Ethylbenzene	µg/L	1		<1	<1	<1
	Xylene (o)	µg/L	1		<1	<1	<1
	Xylene (m & p)	µg/L	2		<2	<2	<2
	Xylene Total	µg/L	1		<1	<1	<1
PAHs	Acenaphthene	µg/L	0.1		<0.1	<0.1	<0.1
	Acenaphthylene	µg/L	0.1		<0.1	<0.1	<0.1
	Anthracene	µg/L	0.1		<0.1	<0.1	<0.1
	Benz(a)anthracene	µg/L	0.1		<0.1	<0.1	<0.1
	Benzo(a) pyrene	µg/L	0.1		<0.1	<0.1	<0.1
	Benzo(b+k)fluoranthene	µg/L	0.2		<0.2	<0.2	<0.2
	Benzo(g,h,i)perylene	µg/L	0.1		<0.1	<0.1	<0.1
	Chrysene	µg/L	0.1		<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	µg/L	0.1		<0.1	<0.1	<0.1
	Fluoranthene	µg/L	0.1		<0.1	<0.1	<0.1
	Fluorene	µg/L	0.1		<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1		<0.1	<0.1	<0.1
	Naphthalene	µg/L	0.1		<0.1	<0.1	<0.1
	PAHs (Sum of total)	µg/L			0	0	0
	Phenanthrene	µg/L	0.1		<0.1	<0.1	<0.1
	Pyrene	µg/L	0.1		<0.1	<0.1	<0.1

Tabulated Analytical Results
Groundwater - Water Based Recreation Criteria

						Location	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
						Field ID	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
						Sampled Date	2/10/2019	2/10/2019	2/10/2019
Chemical Group	**Chemical Name**	**Units**	**EQL**	**ADWG 2018 Corrected for PCR**	**PFAS NEMP 2018 Table 1 Health Recreational Water**				
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	µg/L	0.01				<0.01	<0.01	<0.01
	6:2 Fluorotelomer sulfonate (6:2 FtS)	µg/L	0.01				<0.01	<0.01	<0.01
	8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01				<0.01	<0.01	<0.01
	10:2 Fluorotelomer sulfonate (10:2 FTS)	µg/L	0.01				<0.01	<0.01	<0.01
	Perfluorobutanoic acid (PFBA)	µg/L	0.02				0.04	0.03	0.08
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01				0.11	0.16	0.38
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01				0.04	0.02	0.08
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01				0.26	0.15	0.45
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	**5.6**	**5.6**		0.07	0.04	0.13
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01				1.1	0.79	2.2
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02				0.1	0.03	0.1
	Sum of PFHxS and PFOS	µg/L	0.01		**0.7**		**2**	**1.5**	**4.8**
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05				<0.05	<0.05	<0.05
	NEtFOSAA	µg/L	0.02				<0.02	<0.02	<0.02
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.1				<0.1	<0.1	<0.1
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.5				<0.5	<0.5	<0.5
	NMeFOSAA	µg/L	0.02				<0.02	<0.02	<0.02
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05				<0.05	<0.05	<0.05
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02				<0.02	<0.02	<0.02
	Perfluorodecanoic acid (PFDA)	µg/L	0.02				<0.02	<0.02	<0.02
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05				<0.05	<0.05	<0.05
	Perfluoroheptanesulfonic acid*	µg/L	0.01				0.05	0.04	0.13
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01				0.88	0.68	2.6
	Perfluorononanoic acid (PFNA)	µg/L	0.01				<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1				<0.1	<0.1	<0.1
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01				0.12	0.13	0.39
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5				<0.5	<0.5	<0.5
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1				<0.1	<0.1	<0.1
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02				<0.02	<0.02	<0.02
	Sum of PFAS	µg/L	0.01				2.8	2.1	6.5
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01				1.2	0.83	2.3
Inorganics	Hardness (Filtered)	mg/L	3				250	350	370
	Hydroxide	µg/L	5000				<5000	<5000	<5000
	Ionic Balance	%					1.1	-0.46	6.2
	pH (Lab)	pH Unit					8	7.9	8
	TDS	mg/L	5				560	810	760
Major Anions	Alkalinity (Bicarbonate as CaCO3)	mg/L	5				270	240	400
	Alkalinity (Carbonate as CaCO3)	mg/L	5				<5	<5	<5
	Alkalinity (total)	mg/L	5				270	240	400
	Chloride	mg/L	1				120	250	120
	Sulphate (Filtered)	mg/L	1				64	58	62
Major Cations	Calcium	mg/L	0.5				52	67	76
	Magnesium	mg/L	0.5				30	44	45
	Potassium	mg/L	0.5				1.3	1.6	1.8
	Sodium	mg/L	0.5				120	140	160
Metals	Aluminium (Filtered)	mg/L	0.01				0.43	<0.01	0.83
	Antimony (Filtered)	mg/L	0.001	**0.03**			<0.001	<0.001	<0.001
	Arsenic (Filtered)	mg/L	0.001	**0.1**			0.002	<0.001	0.001
	Beryllium (Filtered)	mg/L	0.0005	**0.6**			<0.0005	<0.0005	<0.0005
	Cadmium (Filtered)	mg/L	0.0001	**0.02**			<0.0001	<0.0001	<0.0001
	Chromium (III+VI) (Filtered)	mg/L	0.001				0.001	<0.001	0.002
	Copper (Filtered)	mg/L	0.001	**20**			<0.001	<0.001	0.003
	Iron (Filtered)	mg/L	0.01				0.33	<0.01	0.64
	Lead (Filtered)	mg/L	0.001	**0.1**			<0.001	<0.001	0.001
	Mercury (Filtered)	mg/L	0.00005	**0.01**			<0.00005	<0.00005	<0.00005
	Nickel (Filtered)	mg/L	0.001	**0.2**			0.001	<0.001	0.003
	Selenium (Filtered)	mg/L	0.001	**0.1**			0.002	0.002	0.002
	Silver (Filtered)	mg/L	0.001	**1**			<0.001	<0.001	<0.001
	Thallium (Filtered)	mg/L	0.001				<0.001	<0.001	<0.001
	Zinc (Filtered)	mg/L	0.001				0.004	0.003	0.009
TRH	F1 (TRH C6-C10 less BTEX)	mg/L	0.01				<0.01	<0.01	<0.01
	F2 (TRH C10-C16 less Naphthalene)	mg/L	0.05				<0.05	<0.05	<0.05
	F3 (TRH C16-C34)	mg/L	0.1				<0.1	<0.1	<0.1
	F4 (TRH C34-C40)	mg/L	0.1				<0.1	<0.1	<0.1
	TRH C6-C10	mg/L	0.01				<0.01	<0.01	<0.01
	TRH C10-C16	mg/L	0.05				<0.05	<0.05	<0.05
	TRH C10 - C40 (Sum of total)	µg/L	50				<50	<50	<50
TPH	TPH C6-C9	µg/L	10				<10	<10	<10
	TPH C10 - C14	µg/L	50				<50	<50	<50
	TPH C15 - C28	µg/L	100				<100	<100	<100
	TPH C29 - C36	µg/L	100				<100	<100	<100
	TPH C10 - C36 (Sum of Total)	µg/L	50				<50	<50	<50
BTEX	Benzene	µg/L	1	**1**			<1	<1	<1
	Toluene	µg/L	1	**800**			<1	<1	<1
	Ethylbenzene	µg/L	1	**300**			<1	<1	<1
	Xylene (o)	µg/L	1				<1	<1	<1
	Xylene (m & p)	µg/L	2				<2	<2	<2
	Xylene Total	µg/L	1	**600**			<1	<1	<1
PAHs	Acenaphthene	µg/L	0.1				<0.1	<0.1	<0.1
	Acenaphthylene	µg/L	0.1				<0.1	<0.1	<0.1
	Anthracene	µg/L	0.1				<0.1	<0.1	<0.1
	Benz(a)anthracene	µg/L	0.1				<0.1	<0.1	<0.1
	Benzo(a) pyrene	µg/L	0.1	**0.1**			<0.1	<0.1	<0.1
	Benzo(b+k)fluoranthene	µg/L	0.2				<0.2	<0.2	<0.2
	Benzo(g,h,i)perylene	µg/L	0.1				<0.1	<0.1	<0.1
	Chrysene	µg/L	0.1				<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	µg/L	0.1				<0.1	<0.1	<0.1
	Fluoranthene	µg/L	0.1				<0.1	<0.1	<0.1
	Fluorene	µg/L	0.1				<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1				<0.1	<0.1	<0.1
	Naphthalene	µg/L	0.1				<0.1	<0.1	<0.1
	PAHs (Sum of total)	µg/L					0	0	0
	Phenanthrene	µg/L	0.1				<0.1	<0.1	<0.1
	Pyrene	µg/L	0.1				<0.1	<0.1	<0.1

Tabulated Analytical Results
Groundwater - Aesthetics Criteria

Chemical Group	Chemical Name	Units	EQL	ADWG 2018 Aesthetic	Location	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
					Field ID	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
					Sampled Date	2/10/2019	2/10/2019	2/10/2019
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	µg/L	0.01			<0.01	<0.01	<0.01
	6:2 Fluorotelomer sulfonate (6:2 FtS)	µg/L	0.01			<0.01	<0.01	<0.01
	8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01			<0.01	<0.01	<0.01
	10:2 Fluorotelomer sulfonate (10:2 FTS)	µg/L	0.01			<0.01	<0.01	<0.01
	Perfluorobutanoic acid (PFBA)	µg/L	0.02			0.04	0.03	0.08
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01			0.11	0.16	0.38
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01			0.04	0.02	0.08
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01			0.26	0.15	0.45
	Perfluorooctanoic acid (PFOA)	µg/L	0.01			0.07	0.04	0.13
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01			1.1	0.79	2.2
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02			0.1	0.03	0.1
	Sum of PFHxS and PFOS	µg/L	0.01			2	1.5	4.8
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05			<0.05	<0.05	<0.05
	NEtFOSAA	µg/L	0.02			<0.02	<0.02	<0.02
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.1			<0.1	<0.1	<0.1
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.5			<0.5	<0.5	<0.5
	NMeFOSAA	µg/L	0.02			<0.02	<0.02	<0.02
	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05			<0.05	<0.05	<0.05
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02			<0.02	<0.02	<0.02
	Perfluorodecanoic acid (PFDA)	µg/L	0.02			<0.02	<0.02	<0.02
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05			<0.05	<0.05	<0.05
	Perfluoroheptanesulfonic acid*	µg/L	0.01			0.05	0.04	0.13
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01			0.88	0.68	2.6
	Perfluorononanoic acid (PFNA)	µg/L	0.01			<0.01	<0.01	<0.01
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1			<0.1	<0.1	<0.1
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01			0.12	0.13	0.39
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5			<0.5	<0.5	<0.5
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1			<0.1	<0.1	<0.1
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02			<0.02	<0.02	<0.02
	Sum of PFAS	µg/L	0.01			2.8	2.1	6.5
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01			1.2	0.83	2.3
Inorganics	Hardness (Filtered)	mg/L	3			250	350	370
	Hydroxide	µg/L	5000			<5000	<5000	<5000
	Ionic Balance	%				1.1	-0.46	6.2
	pH (Lab)	pH Unit		**6.5-8.5**		8	7.9	8
	TDS	mg/L	5	**600**		560	**810**	**760**
Major Anions	Alkalinity (Bicarbonate as CaCO3)	mg/L	5			270	240	400
	Alkalinity (Carbonate as CaCO3)	mg/L	5			<5	<5	<5
	Alkalinity (total)	mg/L	5			270	240	400
	Chloride	mg/L	1	**250**		120	**250**	120
	Sulphate (Filtered)	mg/L	1	**250**		64	58	62
Major Cations	Calcium	mg/L	0.5			52	67	76
	Magnesium	mg/L	0.5			30	44	45
	Potassium	mg/L	0.5			1.3	1.6	1.8
	Sodium	mg/L	0.5	**180**		120	140	160
Metals	Aluminium (Filtered)	mg/L	0.01			0.43	<0.01	0.83
	Antimony (Filtered)	mg/L	0.001			<0.001	<0.001	<0.001
	Arsenic (Filtered)	mg/L	0.001			0.002	<0.001	0.001
	Beryllium (Filtered)	mg/L	0.0005			<0.0005	<0.0005	<0.0005
	Cadmium (Filtered)	mg/L	0.0001			<0.0001	<0.0001	<0.0001
	Chromium (III+VI) (Filtered)	mg/L	0.001			0.001	<0.001	0.002
	Copper (Filtered)	mg/L	0.001	**1**		<0.001	<0.001	0.003
	Iron (Filtered)	mg/L	0.01	**0.3**		**0.33**	<0.01	**0.64**
	Lead (Filtered)	mg/L	0.001			<0.001	<0.001	0.001
	Mercury (Filtered)	mg/L	0.00005			<0.00005	<0.00005	<0.00005
	Nickel (Filtered)	mg/L	0.001			0.001	<0.001	0.003
	Selenium (Filtered)	mg/L	0.001			0.002	0.002	0.002
	Silver (Filtered)	mg/L	0.001			<0.001	<0.001	<0.001
	Thallium (Filtered)	mg/L	0.001			<0.001	<0.001	<0.001
	Zinc (Filtered)	mg/L	0.001	**3**		0.004	0.003	0.009
TRH	F1 (TRH C6-C10 less BTEX)	mg/L	0.01			<0.01	<0.01	<0.01
	F2 (TRH C10-C16 less Naphthalene)	mg/L	0.05			<0.05	<0.05	<0.05
	F3 (TRH C16-C34)	mg/L	0.1			<0.1	<0.1	<0.1
	F4 (TRH C34-C40)	mg/L	0.1			<0.1	<0.1	<0.1
	TRH C6-C10	mg/L	0.01			<0.01	<0.01	<0.01
	TRH C10-C16	mg/L	0.05			<0.05	<0.05	<0.05
	TRH C10 - C40 (Sum of total)	µg/L	50			<50	<50	<50
TPH	TPH C6-C9	µg/L	10			<10	<10	<10
	TPH C10 - C14	µg/L	50			<50	<50	<50
	TPH C15 - C28	µg/L	100			<100	<100	<100
	TPH C29 - C36	µg/L	100			<100	<100	<100
	TPH C10 - C36 (Sum of Total)	µg/L	50			<50	<50	<50
BTEX	Benzene	µg/L	1			<1	<1	<1
	Toluene	µg/L	1	**25**		<1	<1	<1
	Ethylbenzene	µg/L	1	**3**		<1	<1	<1
	Xylene (o)	µg/L	1			<1	<1	<1
	Xylene (m & p)	µg/L	2			<2	<2	<2
	Xylene Total	µg/L	1	**20**		<1	<1	<1
PAHs	Acenaphthene	µg/L	0.1			<0.1	<0.1	<0.1
	Acenaphthylene	µg/L	0.1			<0.1	<0.1	<0.1
	Anthracene	µg/L	0.1			<0.1	<0.1	<0.1
	Benz(a)anthracene	µg/L	0.1			<0.1	<0.1	<0.1
	Benzo(a) pyrene	µg/L	0.1			<0.1	<0.1	<0.1
	Benzo(b+k)fluoranthene	µg/L	0.2			<0.2	<0.2	<0.2
	Benzo(g,h,i)perylene	µg/L	0.1			<0.1	<0.1	<0.1
	Chrysene	µg/L	0.1			<0.1	<0.1	<0.1
	Dibenz(a,h)anthracene	µg/L	0.1			<0.1	<0.1	<0.1
	Fluoranthene	µg/L	0.1			<0.1	<0.1	<0.1
	Fluorene	µg/L	0.1			<0.1	<0.1	<0.1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1			<0.1	<0.1	<0.1
	Naphthalene	µg/L	0.1			<0.1	<0.1	<0.1
	PAHs (Sum of total)	µg/L				0	0	0
	Phenanthrene	µg/L	0.1			<0.1	<0.1	<0.1
	Pyrene	µg/L	0.1			<0.1	<0.1	<0.1

Tabulated Analytical Results
Groundwater - Health Criteria

Location	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
Field ID	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03
Sampled Date	2/10/2019	2/10/2019	2/10/2019

				NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand					
Chemical Group	**Chemical Name**	**Units**	**EQL**	**2-4m**	**4-8m**	**>8m**			
TRH	F1 (TRH C6-C10 less BTEX)	mg/L	0.01	**6**	**6**	**7**	<0.01	<0.01	<0.01
	F2 (TRH C10-C16 less Naphthalene)	mg/L	0.05	**NL**	**NL**	**NL**	<0.05	<0.05	<0.05
	F3 (TRH C16-C34)	mg/L	0.1				<0.1	<0.1	<0.1
	F4 (TRH C34-C40)	mg/L	0.1				<0.1	<0.1	<0.1
	TRH C6-C10	mg/L	0.01				<0.01	<0.01	<0.01
	TRH C10-C16	mg/L	0.05				<0.05	<0.05	<0.05
	TRH C10 - C40 (Sum of total)	µg/L	50				<50	<50	<50
BTEX	Benzene	µg/L	1	**5000**	**5000**	**5000**	<1	<1	<1
	Toluene	µg/L	1	**NL**	**NL**	**NL**	<1	<1	<1
	Ethylbenzene	µg/L	1	**NL**	**NL**	**NL**	<1	<1	<1
	Xylene (o)	µg/L	1				<1	<1	<1
	Xylene (m & p)	µg/L	2				<2	<2	<2
	Xylene Total	µg/L	1	**NL**	**NL**	**NL**	<1	<1	<1
	Naphthalene	µg/L	0.1	**NL**	**NL**	**NL**	<0.1	<0.1	<0.1

APPENDIX G NATA ACCREDITED LABORATORY RESULTS

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/09/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 1 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB01-0.2	9.9.19			Soil	ESKY	ICE	x	x	x		x						
2	CAG-CAT01-SB01-0.5					ESKY	ICE		x	x	x							
3	CAG-CAT01-SB01-1.0					ESKY	ICE		x	x	x							**PFAS in Soil LoR to be 0.005mg/kg**
4	CAG-CAT01-SB01-1.5					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB01-2.0					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB01-3.0					ESKY	ICE	x	x	x								
7	CAG-CAT01-SB01-4.0					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB02-0.2					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB02-0.5					ESKY	ICE		x	x	x		x					
10	CAG-CAT01-SB02-1.0					ESKY	ICE		x	x	x							
11	CAG-CAT01-SB02-1.5					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB02-2.0					ESKY	ICE		x	x	x							
13	CAG-CAT01-SB02-3.0					ESKY	ICE		x	x	x		x					
14	CAG-CAT01-SB02-4.0					ESKY	ICE		x	x	x							
15	CAG-CAT01-SB03-0.2					ESKY	ICE		x	x	x							

ENVIROLAB GROUP
Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 18085
Date Received: 12/9/19
Time Received: 15
Received By: GB
Temp: Cool/Ambient 16.4°C
Cooling: ~~Ice~~/Icepack
Security: Intact/Broken/None

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix ~~S = Soil~~ W= Water

Samples on Ice ~~☒ Yes~~ ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- Metals includes Ag, As, Be, Cd, Hg, Mo, Ni, Pb and Se

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M. GIBBS		11/9/19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/09/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 2 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB03-0.5	9.9.19			SOIL	ESKY	ICE	x	x	x		x						
2	CAG-CAT01-SB03-1.0					ESKY	ICE		x	x	x							
3	CAG-CAT01-SB03-1.5					ESKY	ICE		x	x	x							PFAS in Soil LoR to be 0.005mg/kg
4	CAG-CAT01-SB03-2.0					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB03-3.0					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB03-4.0					ESKY	ICE	x	x	x								
7	CAG-CAT01-SB04-0.2					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB04-0.5					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB04-1.0					ESKY	ICE		x	x	x							
10	CAG-CAT01-SB04-1.5					ESKY	ICE		x	x	x							
11	CAG-CAT01-SB04-2.0					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB04-3.0					ESKY	ICE		x	x	x							
13	CAG-CAT01-SB04-4.0					ESKY	ICE		x	x	x							
14	CAG-CAT01-SB05-0.2					ESKY	ICE		x	x	x	x						
15	CAG-CAT01-SB05-0.5					ESKY	ICE		x	x	x							

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ☐ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M. GIBBS		11/9/19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 3 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB05-1.0	9.9.19			SOIL	ESKY	ICE	x	x	x								
2	CAG-CAT01-SB05-1.5	↓			↓	ESKY	ICE		x	x	x							
3	CAG-CAT01-SB05-2.0					ESKY	ICE		x	x	x							PFAS in Soil LoR to be 0.005mg/kg
4	CAG-CAT01-SB05-3.0					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB05-4.0					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB06-0.2	10.9.19				ESKY	ICE	x	x	x								
7	CAG-CAT01-SB06-0.5					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB06-1.0					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB06-1.5					ESKY	ICE		x	x	x							
10	CAG-CAT01-SB06-2.0					ESKY	ICE		x	x	x							
11	CAG-CAT01-SB06-3.0					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB06-4.0					ESKY	ICE		x	x	x							
13	CAG-CAT01-SB07-0.2					ESKY	ICE		x	x	x		x					
14	CAG-CAT01-SB07-0.5					ESKY	ICE		x	x	x	x						
15	CAG-CAT01-SB07-1.0	↓			↓	ESKY	ICE		x	x	x							

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ~~☐ Yes~~ ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M.GIBBS		11/9/19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 4 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB07-1.5	09.19			SOIL	ESKY	ICE	x	x	x								
2	CAG-CAT01-SB07-2.0					ESKY	ICE		x	x	x		x					
3	CAG-CAT01-SB07-3.0					ESKY	ICE		x	x	x							PFAS in Soil LoR to be 0.005mg/kg
4	CAG-CAT01-SB07-4.0					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB08-0.2					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB08-0.5					ESKY	ICE	x	x	x								
7	CAG-CAT01-SB08-1.0					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB08-1.5					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB08-2.0					ESKY	ICE		x	x	x							
10	CAG-CAT01-SB08-3.0					ESKY	ICE		x	x	x							
11	CAG-CAT01-SB08-4.0					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB09-0.2					ESKY	ICE		x	x	x	x						
13	CAG-CAT01-SB09-0.5					ESKY	ICE		x	x	x							
14	CAG-CAT01-SB09-1.0					ESKY	ICE		x	x	x							
15	CAG-CAT01-SB09-1.5					ESKY	ICE		x	x	x							

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ☒ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M. GIBBS		11/9/19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 5 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
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Tel: (03) 8676 1200
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Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB09-2.0	10.9.19			SOIL	ESKY	ICE	x	x	x								
2	CAG-CAT01-SB09-3.0					ESKY	ICE		x	x	x							
3	CAG-CAT01-SB09-4.0					ESKY	ICE		x	x	x							**PFAS in Soil LoR to be 0.005mg/kg**
4	CAG-CAT01-SB10-0.2					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB10-0.5					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB10-1.0					ESKY	ICE	x	x	x								
7	CAG-CAT01-SB10-1.5					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB10-2.0					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB10-3.0					ESKY	ICE		x	x	x							
10	CAG-CAT01-SB10-4.0					ESKY	ICE		x	x	x							
11	CAG-CAT01-SB11-0.2					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB11-0.5					ESKY	ICE		x	x	x	x	x					
13	CAG-CAT01-SB11-1.0					ESKY	ICE		x	x	x							
14	CAG-CAT01-SB11-1.5					ESKY	ICE		x	x	x							
15	CAG-CAT01-SB11-2.0					ESKY	ICE		x	x	x							

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ☒ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M. GIBBS		11/9/19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 18085

Client Details

Client	Meinhardt
Attention	Sid Paleri
Address	Level 12, 501 Swanston st, Melbourne, VIC, 3000

Sample Details

Your Reference	**CAG-25-27 Catalina-ENV Assessment**
Number of Samples	75 Soil
Date samples received	12/09/2019
Date completed instructions received	12/09/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	17/09/2019
Date of Issue	17/09/2019

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Chris De Luca, Operations Manager

Authorised By



Pamela Adams, Laboratory Manager

VOC in soils						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
carbon tetrachloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chloroform	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
methylene chloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
MEK	mg/kg	<5	<5	<5	<5	<5
styrene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate 4-Bromofluorobenzene	%	98	97	96	97	98
Surrogate Dibromofluoromethane	%	100	97	101	98	100
Surrogate Toluene-d_8	%	100	99	100	100	99
Surrogate aaa-Trifluorotoluene	%	108	107	105	107	89

VOC in soils						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
carbon tetrachloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chloroform	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
methylene chloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
MEK	mg/kg	<5	<5	<5	<5	<5
styrene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate 4-Bromofluorobenzene	%	97	97	97	97	96
Surrogate Dibromofluoromethane	%	98	100	99	97	99
Surrogate Toluene-d_8	%	98	101	99	100	100
Surrogate aaa-Trifluorotoluene	%	98	106	103	107	101

VOC in soils						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
carbon tetrachloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chloroform	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
methylene chloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
MEK	mg/kg	<5	<5	<5	<5	<5
styrene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate 4-Bromofluorobenzene	%	97	95	96	97	98
Surrogate Dibromofluoromethane	%	98	98	91	91	90
Surrogate Toluene-d_8	%	99	99	97	96	95
Surrogate aaa-Trifluorotoluene	%	108	109	90	89	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	91	90	89	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	89	91	90	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	89	90	88	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	91	88	89	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	75	93	91	88	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	88	81	90	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	86	88	85	87

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	84	86	87	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	88	92	91	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	85	90	93	90	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	91	91	87	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	92	89	96	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	91	91	94	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	89	91	87	87

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	93	88	87	88	85

TRH Soil C10-C40 NEPM						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	82	83	82	82

TRH Soil C10-C40 NEPM						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	200	<50
Surrogate o-Terphenyl	%	82	82	81	82	81

TRH Soil C10-C40 NEPM						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	83	84	83	83

TRH Soil C10-C40 NEPM						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	84	84	84	82

TRH Soil C10-C40 NEPM						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	85	88	84	84

TRH Soil C10-C40 NEPM						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	84	79	78	79

TRH Soil C10-C40 NEPM						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	79	77	78	78

TRH Soil C10-C40 NEPM						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	76	77	77	78	77

TRH Soil C10-C40 NEPM						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	78	78	77	78	78

TRH Soil C10-C40 NEPM						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	78	78	76	72

TRH Soil C10-C40 NEPM						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	78	78	79	79	79

TRH Soil C10-C40 NEPM						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	79	80	78	80

TRH Soil C10-C40 NEPM						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	79	79	78	78

TRH Soil C10-C40 NEPM						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	79	81	80	80

TRH Soil C10-C40 NEPM						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	78	80	79	79

PAHs in Soil						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	90	90	94	94	94

PAHs in Soil						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	92	90	90	98	96

PAHs in Soil						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	92	100	96	94	94

PAHs in Soil						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	96	94	96	96	92

PAHs in Soil						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	94	94	96	94	96

PAHs in Soil						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	96	96	100	94	106

PAHs in Soil						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	96	100	104	94	96

PAHs in Soil						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	88	98	98	98	92

PAHs in Soil						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	94	102	92	94	98

PAHs in Soil						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	92	96	94	96	96

PAHs in Soil						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	96	94	92	98	96

PAHs in Soil						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	90	92	96	98	94

PAHs in Soil						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	92	92	92	94	92

PAHs in Soil						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	15/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	92	106	100	102	92

PAHs in Soil						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	98	100	106	98	96

Speciated Phenols in Soil						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<2	<2	<2	<2	<2
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	mg/kg	<1	<1	<1	<1	<1
4-Chloro-3-Methylphenol	mg/kg	<2	<2	<2	<2	<2
Total +ve Cresols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Total +ve Phenols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate Phenol-d_6	%	80	80	82	84	80

Speciated Phenols in Soil						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<2	<2	<2	<2	<2
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	mg/kg	<1	<1	<1	<1	<1
4-Chloro-3-Methylphenol	mg/kg	<2	<2	<2	<2	<2
Total +ve Cresols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Total +ve Phenols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate Phenol-d_6	%	84	84	84	84	82

Speciated Phenols in Soil						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<2	<2	<2	<2	<2
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	mg/kg	<1	<1	<1	<1	<1
4-Chloro-3-Methylphenol	mg/kg	<2	<2	<2	<2	<2
Total +ve Cresols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Total +ve Phenols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate Phenol-d_6	%	82	82	82	80	84

OCP in Soil						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	90	92	92	96	94

OCP in Soil						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	96	88	94	92

OCP in Soil						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	90	92	92	98

OP in Soil						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
Azinphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorovos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	90	92	92	96	94

OP in Soil						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Azinphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorovos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	96	88	94	92

OP in Soil						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Azinphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorovos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	90	92	92	98

PCBs in Soil						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	90	92	92	96	94

PCBs in Soil						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	96	88	94	92

PCBs in Soil						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	90	92	92	98

Acid Herbicides in soil						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-D	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluroxypyr	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-T	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate: 2,4-DCPA	%	82	86	88	82	84

Acid Herbicides in soil						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-D	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluroxypyr	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-T	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate: 2,4-DCPA	%	88	92	76	86	86

Acid Herbicides in soil						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-D	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluroxypyr	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-T	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate: 2,4-DCPA	%	84	86	76	86	82

SVOC in soil						
Our Reference		18085-1	18085-6	18085-11	18085-16	18085-21
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-1.5	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-Dinitrotoluene	mg/kg	<1	<1	<1	<1	<1
Nitrobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate p-Terphenyl-d_{14}	%	100	102	104	106	102

SVOC in soil						
Our Reference		18085-26	18085-31	18085-36	18085-41	18085-46
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-1.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-Dinitrotoluene	mg/kg	<1	<1	<1	<1	<1
Nitrobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate p-Terphenyl-d_{14}	%	106	104	96	104	106

SVOC in soil						
Our Reference		18085-51	18085-56	18085-61	18085-66	18085-71
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-Dinitrotoluene	mg/kg	<1	<1	<1	<1	<1
Nitrobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate p-Terphenyl-d_{14}	%	104	100	106	108	116

NSW DECC Metals						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	12	4	<4	4	<4
Beryllium	mg/kg	2	1	1	1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	23	20	8	12	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	24	9	8	18	11
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	7	17	8	6	9
Beryllium	mg/kg	1	1	2	1	2
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	19	16	18	17	40
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	16	11	29	20	16
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	[NA]	[NA]	[NA]	32,000	[NA]

NSW DECC Metals						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	4	4	9	7	<4
Beryllium	mg/kg	1	1	1	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	12	9	16	13	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	10	15	12	12	11
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	[NA]	[NA]	39,000	[NA]	[NA]

NSW DECC Metals						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	<4	7	<4	4	5
Beryllium	mg/kg	<1	1	2	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	6	25	9	10	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	19	12	13	12	12
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	6	<4	4	<4	<4
Beryllium	mg/kg	<1	<1	1	1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	10	14	13	13	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	8	10	14	11	13
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	7	5	6	4	4
Beryllium	mg/kg	1	1	<1	1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	10	11	7	15	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	17	13	8	12	17
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	4	<4	<4	<4	<4
Beryllium	mg/kg	1	2	<1	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	18	9	8	11	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	10	17	7	12	10
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	5	10	5	<4	5
Beryllium	mg/kg	1	<1	<1	2	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	17	19	18	15	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	13	31	9	17	17
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	10	5	<4	4	6
Beryllium	mg/kg	1	<1	<1	<1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	29	8	14	9	24
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	18	8	8	11	12
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	[NA]	[NA]	23,000	[NA]	[NA]

NSW DECC Metals						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	<4	<4	4	6	<4
Beryllium	mg/kg	1	<1	<1	<1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	11	9	14	13	17
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	19	10	9	9	11
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	[NA]	19,000	[NA]	[NA]	[NA]

NSW DECC Metals						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	7	<4	8	<4	14
Beryllium	mg/kg	<1	<1	2	<1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	20	11	24	9	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	21	8	19	7	13
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	6	<4	4	5	<4
Beryllium	mg/kg	<1	<1	1	1	2
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	8	15	12	14	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	8	11	12	17	30
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	<4	<4	<4	<4	6
Beryllium	mg/kg	<1	1	<1	<1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	8	8	6	21	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	10	9	7	11	42
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	4	<4	<4	9	4
Beryllium	mg/kg	1	1	<1	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	13	13	9	17	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	17	12	9	18	15
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Arsenic	mg/kg	<4	<4	<4	<4	<4
Beryllium	mg/kg	<1	<1	1	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	16	14	14	9	7
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	9	11	14	14	11
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	[NA]	22,000	[NA]	[NA]	[NA]

Inorganics in soil						
Our Reference		18085-1	18085-6	18085-9	18085-11	18085-13
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-3.0	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	<1	<1	[NA]	<1	[NA]
Total Cyanide	mg/kg	<0.5	<0.5	[NA]	<0.5	[NA]
Weak Acid Dissociable Cyanide	mg/kg	<0.5	<0.5	[NA]	<0.5	[NA]
pH 1:5 soil:water	pH Units	9.3	8.6	[NA]	8.8	[NA]
pH 1:5 soil:$CaCl_2$	pH Units	[NA]	[NA]	8.0	[NA]	7.7
Total Organic Carbon (Walkley Black)	mg/kg	[NA]	[NA]	3,700	[NA]	<1000
Clay in soils <2um	% (w/w)	[NA]	[NA]	32	[NA]	40

Inorganics in soil						
Our Reference		18085-16	18085-21	18085-26	18085-31	18085-36
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-2.0	CAG-CAT01-SB05-1.0	CAG-CAT01-SB06-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	<1	<1	<1	<1	<1
Total Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Weak Acid Dissociable Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
pH 1:5 soil:water	pH Units	9.1	8.9	9.3	9.2	8.8

Inorganics in soil						
Our Reference		18085-41	18085-43	18085-46	18085-47	18085-51
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB08-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	<1	[NA]	<1	[NA]	<1
Total Cyanide	mg/kg	<0.5	[NA]	<0.5	[NA]	<0.5
Weak Acid Dissociable Cyanide	mg/kg	<0.5	[NA]	<0.5	[NA]	<0.5
pH 1:5 soil:water	pH Units	8.7	[NA]	9.5	[NA]	9.2
pH 1:5 soil:$CaCl_2$	pH Units	[NA]	7.6	[NA]	8.4	[NA]
Total Organic Carbon (Walkley Black)	mg/kg	[NA]	11,000	[NA]	1,300	[NA]
Clay in soils <2um	% (w/w)	[NA]	27	[NA]	43	[NA]

Inorganics in soil						
Our Reference		18085-56	18085-61	18085-66	18085-71	18085-72
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-2.0	CAG-CAT01-SB10-1.0	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	<1	<1	<1	<1	[NA]
Total Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	[NA]
Weak Acid Dissociable Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	[NA]
pH 1:5 soil:water	pH Units	8.9	9.1	9.0	9.0	[NA]
pH 1:5 soil:$CaCl_2$	pH Units	[NA]	[NA]	[NA]	[NA]	8.0
Total Organic Carbon (Walkley Black)	mg/kg	[NA]	[NA]	[NA]	[NA]	4,200
Clay in soils <2um	% (w/w)	[NA]	[NA]	[NA]	[NA]	28

Cation exchange capacity						
Our Reference		18085-9	18085-13	18085-43	18085-47	18085-72
Your Reference	UNITS	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-3.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-2.0	CAG-CAT01-SB11-0.5
Date Sampled		09/09/2019	09/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	17/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Exchangeable Ca	meq/100g	7.4	5.1	12	28	15
Exchangeable K	meq/100g	0.2	0.5	0.4	0.4	0.3
Exchangeable Mg	meq/100g	1.5	9.8	2.9	10	4.8
Exchangeable Na	meq/100g	0.4	2.7	0.4	1.3	1.5
Cation Exchange Capacity	meq/100g	9.5	18	16	39	22

Moisture						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	15	9.2	17	20	16

Moisture						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	19	16	9.7	8.5	17

Moisture						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	20	19	20	21	7.4

Moisture						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	16	12	20	22	19

Moisture						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	18	13	15	16	22

Moisture						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	18	15	18	14	18

Moisture						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	11	24	21	20	18

Moisture						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	8.5	8.8	12	23	17

Moisture						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	17	16	8.0	14	11

Moisture						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	24	17	17	17	8.8

Moisture						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	14	11	20	16	18

Moisture						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	15	9.4	16	14	25

Moisture						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	19	18	19	9.2	9.8

Moisture						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	15	19	20	17	16

Moisture						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	7.8	11	23	21	22

Asbestos ID - soils						
Our Reference		18085-1	18085-16	18085-29	18085-44	18085-57
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB03-0.5	CAG-CAT01-SB05-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB09-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Sample mass tested	g	Approx. 50g	Approx. 45g	Approx. 55g	Approx. 40g	Approx. 40g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils		
Our Reference		18085-72
Your Reference	UNITS	CAG-CAT01-SB11-0.5
Date Sampled		10/09/2019
Type of sample		Soil
Date analysed	-	13/09/2019
Sample mass tested	g	Approx. 35g
Sample Description	-	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected
Trace Analysis	-	No asbestos detected

PFAS in Soil Extended						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	0.009	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	103	110	97	107	106
Surrogate $^{13}C_2$ PFOA	%	108	110	100	98	107
Extracted ISTD $^{13}C_3$ *PFBS*	%	90	87	90	89	91
Extracted ISTD $^{18}O_2$ *PFHxS*	%	92	92	93	98	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	86	92	97	97

PFAS in Soil Extended						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_4$ *PFBA*	%	89	90	90	91	87
Extracted ISTD $^{13}C_3$ *PFPeA*	%	98	93	92	96	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%	96	96	94	97	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	104	100	96	101	101
Extracted ISTD $^{13}C_4$ *PFOA*	%	104	96	92	101	100
Extracted ISTD $^{13}C_5$ *PFNA*	%	116	102	99	102	103
Extracted ISTD $^{13}C_2$ *PFDA*	%	132	113	114	123	113
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	107	97	99	100	107
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	95	76	82	96	84
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	124	76	108	82	89
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	91	93	91	97	92
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	109	96	97	102	102
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	118	113	97	109	104
Extracted ISTD $^{13}C_8$ *FOSA*	%	97	94	95	95	97
Extracted ISTD d_3 *N MeFOSA*	%	84	79	83	84	75
Extracted ISTD d_5 *NEtFOSA*	%	91	81	89	79	80
Extracted ISTD d_7 *N MeFOSE*	%	97	88	84	108	102
Extracted ISTD d_9 *N EtFOSE*	%	102	86	100	96	97
Extracted ISTD d_3 *N MeFOSAA*	%	97	79	77	90	98
Extracted ISTD d_5 *N EtFOSAA*	%	93	80	89	93	95
Total Positive PFHxS & PFOS	mg/kg	0.009	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	0.009	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	0.009	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	0.006	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	0.014	0.007	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	104	98	107	102	102
Surrogate $^{13}C_2$ PFOA	%	105	107	103	104	109
Extracted ISTD $^{13}C_3$ *PFBS*	%	90	89	92	88	95
Extracted ISTD $^{18}O_2$ *PFHxS*	%	93	94	88	89	97
Extracted ISTD $^{13}C_4$ *PFOS*	%	90	98	93	95	94
Extracted ISTD $^{13}C_4$ *PFBA*	%	90	87	90	87	89

PFAS in Soil Extended						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	95	98	100	95	98
Extracted ISTD $^{13}C_2$ *PFHxA*	%	96	99	98	96	99
Extracted ISTD $^{13}C_4$ *PFHpA*	%	96	100	103	98	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	100	99	99	98
Extracted ISTD $^{13}C_5$ *PFNA*	%	96	108	111	106	108
Extracted ISTD $^{13}C_2$ *PFDA*	%	115	120	125	116	124
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	102	107	110	122	104
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	83	97	105	105	106
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	71	69	106	84	85
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	93	93	101	96	96
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	99	110	102	104
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	101	91	127	119	105
Extracted ISTD $^{13}C_8$ *FOSA*	%	97	98	94	92	98
Extracted ISTD d_3 *N MeFOSA*	%	79	78	82	76	85
Extracted ISTD d_5 *NEtFOSA*	%	73	73	86	85	86
Extracted ISTD d_7 *N MeFOSE*	%	91	94	109	101	103
Extracted ISTD d_9 *N EtFOSE*	%	91	99	110	96	96
Extracted ISTD d_3 *N MeFOSAA*	%	90	94	105	106	83
Extracted ISTD d_5 *N EtFOSAA*	%	91	88	118	100	93
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	0.014	0.013	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	0.014	0.007	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	0.014	0.013	<0.005

PFAS in Soil Extended						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.018
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	101	96	98	101	99
Surrogate $^{13}C_2$ PFOA	%	109	110	113	105	119
Extracted ISTD $^{13}C_3$ *PFBS*	%	94	89	86	85	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%	98	96	93	98	91
Extracted ISTD $^{13}C_4$ *PFOS*	%	93	96	95	94	95
Extracted ISTD $^{13}C_4$ *PFBA*	%	80	89	89	90	90

PFAS in Soil Extended						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	93	97	99	95	98
Extracted ISTD $^{13}C_2$ *PFHxA*	%	98	100	97	97	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	94	97	96	99	92
Extracted ISTD $^{13}C_4$ *PFOA*	%	92	97	95	103	94
Extracted ISTD $^{13}C_5$ *PFNA*	%	110	105	102	106	109
Extracted ISTD $^{13}C_2$ *PFDA*	%	106	116	118	113	117
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	126	105	103	112	113
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	105	89	75	87	106
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	39	68	78	60	105
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	101	96	91	94	99
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	110	103	101	101	111
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	104	96	97	102	145
Extracted ISTD $^{13}C_8$ *FOSA*	%	95	95	95	94	94
Extracted ISTD d_3 *N MeFOSA*	%	106	75	75	72	80
Extracted ISTD d_5 *NEtFOSA*	%	112	75	74	71	84
Extracted ISTD d_7 *N MeFOSE*	%	88	88	91	99	113
Extracted ISTD d_9 *N EtFOSE*	%	89	93	91	96	113
Extracted ISTD d_3 *N MeFOSAA*	%	120	87	99	91	107
Extracted ISTD d_5 *N EtFOSAA*	%	119	93	93	102	116
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.018
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	0.018
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.018

PFAS in Soil Extended						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	104	104	100	101	92
Surrogate $^{13}C_2$ PFOA	%	107	113	108	118	114
Extracted ISTD $^{13}C_3$ *PFBS*	%	93	87	89	89	86
Extracted ISTD $^{18}O_2$ *PFHxS*	%	100	91	97	90	97
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	89	99	92	101
Extracted ISTD $^{13}C_4$ *PFBA*	%	90	89	91	91	88

PFAS in Soil Extended						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	97	92	98	97	99
Extracted ISTD $^{13}C_2$ *PFHxA*	%	101	92	99	97	99
Extracted ISTD $^{13}C_4$ *PFHpA*	%	99	97	101	96	97
Extracted ISTD $^{13}C_4$ *PFOA*	%	101	94	96	94	92
Extracted ISTD $^{13}C_5$ *PFNA*	%	102	105	106	104	111
Extracted ISTD $^{13}C_2$ *PFDA*	%	122	114	128	128	114
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	106	106	111	107	113
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	95	71	103	81	74
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	75	37	93	32	33
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	96	90	98	101	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	102	96	103	99	101
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	106	101	90	100	90
Extracted ISTD $^{13}C_8$ *FOSA*	%	93	90	95	100	93
Extracted ISTD d_3 *N MeFOSA*	%	78	73	78	70	70
Extracted ISTD d_5 *NEtFOSA*	%	76	65	82	70	70
Extracted ISTD d_7 *N MeFOSE*	%	95	91	105	84	94
Extracted ISTD d_9 *N EtFOSE*	%	93	68	96	86	86
Extracted ISTD d_3 *N MeFOSAA*	%	85	87	86	91	82
Extracted ISTD d_5 *N EtFOSAA*	%	95	74	93	97	95
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	0.023	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	101	101	100	104	105
Surrogate $^{13}C_2$ PFOA	%	102	101	105	104	101
Extracted ISTD $^{13}C_3$ *PFBS*	%	86	91	87	84	83
Extracted ISTD $^{18}O_2$ *PFHxS*	%	86	91	91	86	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	87	90	89	84	83
Extracted ISTD $^{13}C_4$ *PFBA*	%	77	83	85	80	81

PFAS in Soil Extended						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	86	94	89	84	83
Extracted ISTD $^{13}C_2$ *PFHxA*	%	87	91	90	86	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	88	93	92	84	86
Extracted ISTD $^{13}C_4$ *PFOA*	%	87	99	93	89	88
Extracted ISTD $^{13}C_5$ *PFNA*	%	90	98	97	90	88
Extracted ISTD $^{13}C_2$ *PFDA*	%	91	121	106	108	96
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	88	109	101	98	93
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	77	119	91	81	79
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	86	103	54	50	71
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	86	99	95	84	85
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	85	113	99	85	87
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	88	176	105	126	96
Extracted ISTD $^{13}C_8$ *FOSA*	%	87	99	89	92	91
Extracted ISTD d_3 *N MeFOSA*	%	73	87	75	73	73
Extracted ISTD d_5 *NEtFOSA*	%	70	83	68	65	67
Extracted ISTD d_7 *N MeFOSE*	%	85	93	87	83	84
Extracted ISTD d_9 *N EtFOSE*	%	75	95	79	76	76
Extracted ISTD d_3 *N MeFOSAA*	%	85	100	88	73	85
Extracted ISTD d_5 *N EtFOSAA*	%	79	87	89	73	85
Total Positive PFHxS & PFOS	mg/kg	<0.005	0.023	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	0.023	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	0.023	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	0.020	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	98	104	105	101	104
Surrogate $^{13}C_2$ PFOA	%	101	102	103	101	100
Extracted ISTD $^{13}C_3$ *PFBS*	%	89	89	88	87	86
Extracted ISTD $^{18}O_2$ *PFHxS*	%	89	91	87	90	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	88	88	84	88	84
Extracted ISTD $^{13}C_4$ *PFBA*	%	84	83	83	86	82

PFAS in Soil Extended						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	88	87	85	92	85
Extracted ISTD $^{13}C_2$ *PFHxA*	%	91	91	88	92	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	89	91	87	93	87
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	92	91	101	91
Extracted ISTD $^{13}C_5$ *PFNA*	%	91	93	92	99	92
Extracted ISTD $^{13}C_2$ *PFDA*	%	95	99	98	116	102
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	98	93	101	116	101
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	86	75	77	112	82
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	70	64	84	97	87
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	91	91	86	99	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	89	92	89	110	89
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	98	99	104	164	94
Extracted ISTD $^{13}C_8$ *FOSA*	%	88	88	90	98	89
Extracted ISTD d_3 *N MeFOSA*	%	72	73	76	85	74
Extracted ISTD d_5 *NEtFOSA*	%	66	69	70	80	71
Extracted ISTD d_7 *N MeFOSE*	%	88	87	85	93	88
Extracted ISTD d_9 *N EtFOSE*	%	79	76	80	89	79
Extracted ISTD d_3 *N MeFOSAA*	%	86	88	89	100	84
Extracted ISTD d_5 *N EtFOSAA*	%	82	83	86	91	86
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	0.020	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	0.020	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	0.020	<0.005

PFAS in Soil Extended						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	103	100	103	100	102
Surrogate $^{13}C_2$ PFOA	%	101	105	104	100	104
Extracted ISTD $^{13}C_3$ *PFBS*	%	88	87	87	84	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%	91	88	89	84	90
Extracted ISTD $^{13}C_4$ *PFOS*	%	88	89	87	86	87
Extracted ISTD $^{13}C_4$ *PFBA*	%	86	84	84	82	85

PFAS in Soil Extended						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	87	85	85	83	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89	89	88	87	90
Extracted ISTD $^{13}C_4$ *PFHpA*	%	89	89	86	84	89
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	90	92	90	91
Extracted ISTD $^{13}C_5$ *PFNA*	%	92	91	96	91	97
Extracted ISTD $^{13}C_2$ *PFDA*	%	109	97	95	89	103
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	100	104	108	97	104
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	88	95	87	67	82
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	54	60	53	44	60
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	90	87	89	86	90
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	90	92	86	91
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	118	100	93	82	95
Extracted ISTD $^{13}C_8$ *FOSA*	%	90	91	89	86	94
Extracted ISTD d_3 *N MeFOSA*	%	67	72	70	64	79
Extracted ISTD d_5 *NEtFOSA*	%	59	65	65	57	71
Extracted ISTD d_7 *N MeFOSE*	%	78	88	86	79	89
Extracted ISTD d_9 *N EtFOSE*	%	70	81	76	69	80
Extracted ISTD d_3 *N MeFOSAA*	%	87	85	89	81	88
Extracted ISTD d_5 *N EtFOSAA*	%	86	82	83	78	85
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	0.007	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	0.013	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	102	97	102	103	102
Surrogate $^{13}C_2$ PFOA	%	103	102	103	99	104
Extracted ISTD $^{13}C_3$ *PFBS*	%	86	84	82	83	82
Extracted ISTD $^{18}O_2$ *PFHxS*	%	87	84	85	85	83
Extracted ISTD $^{13}C_4$ *PFOS*	%	84	87	83	83	80
Extracted ISTD $^{13}C_4$ *PFBA*	%	83	84	82	83	81

PFAS in Soil Extended						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	86	87	83	83	83
Extracted ISTD $^{13}C_2$ *PFHxA*	%	87	88	85	87	85
Extracted ISTD $^{13}C_4$ *PFHpA*	%	87	88	85	85	84
Extracted ISTD $^{13}C_4$ *PFOA*	%	92	92	90	92	87
Extracted ISTD $^{13}C_5$ *PFNA*	%	96	95	92	93	87
Extracted ISTD $^{13}C_2$ *PFDA*	%	106	101	97	96	92
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	114	108	99	98	99
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	105	85	86	86	79
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	90	57	63	74	89
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	93	92	87	84	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	92	88	94	88
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	120	95	101	98	88
Extracted ISTD $^{13}C_8$ *FOSA*	%	90	90	90	86	88
Extracted ISTD d_3 *N MeFOSA*	%	83	78	70	73	73
Extracted ISTD d_5 *NEtFOSA*	%	77	72	64	67	70
Extracted ISTD d_7 *N MeFOSE*	%	92	88	84	84	83
Extracted ISTD d_9 *N EtFOSE*	%	88	81	78	79	80
Extracted ISTD d_3 *N MeFOSAA*	%	94	90	80	80	82
Extracted ISTD d_5 *N EtFOSAA*	%	90	86	77	78	82
Total Positive PFHxS & PFOS	mg/kg	0.013	0.007	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	0.013	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	0.013	0.007	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	0.022	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	103	103	105	99	103
Surrogate $^{13}C_2$ PFOA	%	104	103	102	101	104
Extracted ISTD $^{13}C_3$ *PFBS*	%	86	83	82	84	84
Extracted ISTD $^{18}O_2$ *PFHxS*	%	88	86	84	86	86
Extracted ISTD $^{13}C_4$ *PFOS*	%	83	83	81	85	83
Extracted ISTD $^{13}C_4$ *PFBA*	%	83	82	83	85	84

PFAS in Soil Extended						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	84	82	87	84	84
Extracted ISTD $^{13}C_2$ *PFHxA*	%	87	85	86	87	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	86	86	87	87	86
Extracted ISTD $^{13}C_4$ *PFOA*	%	91	90	95	95	89
Extracted ISTD $^{13}C_5$ *PFNA*	%	92	91	94	95	91
Extracted ISTD $^{13}C_2$ *PFDA*	%	99	100	114	101	100
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	101	107	110	103	112
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	83	88	118	93	94
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	66	66	113	84	90
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	88	90	92	91	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	90	96	112	91	92
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	91	103	147	96	102
Extracted ISTD $^{13}C_8$ *FOSA*	%	91	90	94	93	91
Extracted ISTD d_3 *N MeFOSA*	%	78	77	83	81	80
Extracted ISTD d_5 *NEtFOSA*	%	72	72	72	77	77
Extracted ISTD d_7 *N MeFOSE*	%	89	87	96	88	89
Extracted ISTD d_9 *N EtFOSE*	%	82	82	93	84	84
Extracted ISTD d_3 *N MeFOSAA*	%	87	88	107	89	86
Extracted ISTD d_5 *N EtFOSAA*	%	86	85	82	87	86
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	0.022	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	0.022	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	0.022	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	99	102	105	102	101
Surrogate $^{13}C_2$ PFOA	%	104	100	100	105	105
Extracted ISTD $^{13}C_3$ *PFBS*	%	82	84	87	83	85
Extracted ISTD $^{18}O_2$ *PFHxS*	%	83	86	88	87	85
Extracted ISTD $^{13}C_4$ *PFOS*	%	83	84	82	80	83
Extracted ISTD $^{13}C_4$ *PFBA*	%	82	84	85	84	85

PFAS in Soil Extended						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	83	83	86	83	88
Extracted ISTD $^{13}C_2$ *PFHxA*	%	84	87	87	86	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	83	87	87	84	88
Extracted ISTD $^{13}C_4$ *PFOA*	%	85	91	92	89	95
Extracted ISTD $^{13}C_5$ *PFNA*	%	88	90	90	89	94
Extracted ISTD $^{13}C_2$ *PFDA*	%	92	94	94	94	113
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	98	100	98	98	99
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	82	98	75	77	105
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	69	86	57	73	101
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	86	88	90	86	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	86	89	89	91	106
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	87	95	89	92	149
Extracted ISTD $^{13}C_8$ *FOSA*	%	88	90	88	84	92
Extracted ISTD d_3 *N MeFOSA*	%	75	82	77	72	78
Extracted ISTD d_5 *NEtFOSA*	%	71	78	72	68	67
Extracted ISTD d_7 *N MeFOSE*	%	79	91	85	82	89
Extracted ISTD d_9 *N EtFOSE*	%	75	87	78	77	88
Extracted ISTD d_3 *N MeFOSAA*	%	80	85	85	83	99
Extracted ISTD d_5 *N EtFOSAA*	%	81	81	77	82	63
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019

PFAS in Soil Extended						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	104	104	100	98	103
Surrogate $^{13}C_2$ PFOA	%	107	101	104	103	105
Extracted ISTD $^{13}C_3$ *PFBS*	%	86	87	83	82	80
Extracted ISTD $^{18}O_2$ *PFHxS*	%	90	91	86	83	84
Extracted ISTD $^{13}C_4$ *PFOS*	%	84	86	84	82	79
Extracted ISTD $^{13}C_4$ *PFBA*	%	87	90	84	82	81

PFAS in Soil Extended						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	86	88	82	80	80
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89	92	86	85	84
Extracted ISTD $^{13}C_4$ *PFHpA*	%	89	90	85	82	82
Extracted ISTD $^{13}C_4$ *PFOA*	%	95	98	88	87	85
Extracted ISTD $^{13}C_5$ *PFNA*	%	95	97	90	87	90
Extracted ISTD $^{13}C_2$ *PFDA*	%	108	102	99	94	92
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	117	113	108	105	95
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	105	103	83	81	73
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	109	94	91	59	57
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	90	89	88	84	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	98	93	88	86	87
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	106	96	89	85	85
Extracted ISTD $^{13}C_8$ *FOSA*	%	94	92	89	89	81
Extracted ISTD d_3 *N MeFOSA*	%	76	74	78	73	73
Extracted ISTD d_5 *NEtFOSA*	%	70	66	74	69	67
Extracted ISTD d_7 *N MeFOSE*	%	100	95	85	86	81
Extracted ISTD d_9 *N EtFOSE*	%	93	90	86	81	71
Extracted ISTD d_3 *N MeFOSAA*	%	90	91	79	80	77
Extracted ISTD d_5 *N EtFOSAA*	%	89	89	83	78	75
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	0.024	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	102	99	100	104	105
Surrogate $^{13}C_2$ PFOA	%	105	104	104	109	107
Extracted ISTD $^{13}C_3$ *PFBS*	%	80	82	83	80	79
Extracted ISTD $^{18}O_2$ *PFHxS*	%	86	86	85	85	83
Extracted ISTD $^{13}C_4$ *PFOS*	%	81	80	85	78	80
Extracted ISTD $^{13}C_4$ *PFBA*	%	83	85	84	82	82

PFAS in Soil Extended						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	80	84	83	80	80
Extracted ISTD $^{13}C_2$ *PFHxA*	%	85	86	86	83	82
Extracted ISTD $^{13}C_4$ *PFHpA*	%	84	86	83	83	81
Extracted ISTD $^{13}C_4$ *PFOA*	%	87	96	91	85	84
Extracted ISTD $^{13}C_5$ *PFNA*	%	90	91	92	88	91
Extracted ISTD $^{13}C_2$ *PFDA*	%	94	112	103	96	96
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	103	120	93	102	103
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	88	112	86	85	86
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	54	94	89	73	79
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	89	91	91	83	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	86	105	88	84	86
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	90	142	94	101	90
Extracted ISTD $^{13}C_8$ *FOSA*	%	86	91	86	88	88
Extracted ISTD d_3 *N MeFOSA*	%	73	76	80	74	78
Extracted ISTD d_5 *NEtFOSA*	%	68	68	72	71	74
Extracted ISTD d_7 *N MeFOSE*	%	87	90	84	82	84
Extracted ISTD d_9 *N EtFOSE*	%	76	88	80	78	80
Extracted ISTD d_3 *N MeFOSAA*	%	82	96	83	85	80
Extracted ISTD d_5 *N EtFOSAA*	%	81	93	66	79	78
Total Positive PFHxS & PFOS	mg/kg	<0.005	0.024	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	0.024	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	0.024	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	0.024	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	92	94	104	99	98
Surrogate $^{13}C_2$ PFOA	%	112	116	106	112	118
Extracted ISTD $^{13}C_3$ *PFBS*	%	93	88	94	93	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	93	93	92	99	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	96	98	95	96
Extracted ISTD $^{13}C_4$ *PFBA*	%	88	84	90	96	93

PFAS in Soil Extended						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	95	92	96	100	101
Extracted ISTD $^{13}C_2$ *PFHxA*	%	97	95	97	102	104
Extracted ISTD $^{13}C_4$ *PFHpA*	%	98	97	100	96	103
Extracted ISTD $^{13}C_4$ *PFOA*	%	98	89	95	97	97
Extracted ISTD $^{13}C_5$ *PFNA*	%	108	101	111	110	102
Extracted ISTD $^{13}C_2$ *PFDA*	%	133	115	120	131	126
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	103	104	102	106	125
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	87	87	84	110	110
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	67	57	52	112	73
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	94	95	100	108	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	101	91	99	116	110
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	102	96	102	151	118
Extracted ISTD $^{13}C_8$ *FOSA*	%	95	92	98	103	98
Extracted ISTD d_3 *N MeFOSA*	%	79	69	71	80	81
Extracted ISTD d_5 *NEtFOSA*	%	81	71	71	89	81
Extracted ISTD d_7 *N MeFOSE*	%	100	95	100	104	100
Extracted ISTD d_9 *N EtFOSE*	%	92	80	96	112	102
Extracted ISTD d_3 *N MeFOSAA*	%	91	84	96	114	108
Extracted ISTD d_5 *N EtFOSAA*	%	95	92	93	107	102
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	0.024	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	0.024	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	0.024	<0.005

PFAS in Soil Extended						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	105	96	109	102	102
Surrogate $^{13}C_2$ PFOA	%	105	99	98	109	105
Extracted ISTD $^{13}C_3$ *PFBS*	%	90	90	88	92	90
Extracted ISTD $^{18}O_2$ *PFHxS*	%	94	95	97	94	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	92	94	96	96	95
Extracted ISTD $^{13}C_4$ *PFBA*	%	93	87	88	90	88

PFAS in Soil Extended						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	97	93	96	98	97
Extracted ISTD $^{13}C_2$ *PFHxA*	%	102	95	99	97	100
Extracted ISTD $^{13}C_4$ *PFHpA*	%	103	97	98	103	97
Extracted ISTD $^{13}C_4$ *PFOA*	%	102	102	100	99	101
Extracted ISTD $^{13}C_5$ *PFNA*	%	114	106	103	100	108
Extracted ISTD $^{13}C_2$ *PFDA*	%	127	122	120	114	116
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	112	105	104	103	105
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	101	89	85	81	94
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	58	65	52	38	48
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	94	94	96	96	96
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	101	101	102	94	101
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	97	107	102	95	103
Extracted ISTD $^{13}C_8$ *FOSA*	%	93	92	98	95	93
Extracted ISTD d_3 *N MeFOSA*	%	77	75	70	71	73
Extracted ISTD d_5 *NEtFOSA*	%	72	71	69	69	71
Extracted ISTD d_7 *N MeFOSE*	%	102	101	96	101	104
Extracted ISTD d_9 *N EtFOSE*	%	94	93	98	89	96
Extracted ISTD d_3 *N MeFOSAA*	%	97	94	89	90	88
Extracted ISTD d_5 *N EtFOSAA*	%	96	99	100	95	90
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	12/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	0.01	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	0.025	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	105	94	108	106	100
Surrogate $^{13}C_2$ PFOA	%	115	104	100	108	112
Extracted ISTD $^{13}C_3$ *PFBS*	%	96	90	83	89	91
Extracted ISTD $^{18}O_2$ *PFHxS*	%	100	90	90	89	98
Extracted ISTD $^{13}C_4$ *PFOS*	%	96	91	91	93	96
Extracted ISTD $^{13}C_4$ *PFBA*	%	93	93	91	91	90

PFAS in Soil Extended						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	100	97	97	97	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%	102	97	95	97	100
Extracted ISTD $^{13}C_4$ *PFHpA*	%	100	97	93	98	105
Extracted ISTD $^{13}C_4$ *PFOA*	%	103	100	101	95	100
Extracted ISTD $^{13}C_5$ *PFNA*	%	108	106	104	99	108
Extracted ISTD $^{13}C_2$ *PFDA*	%	125	115	119	127	127
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	110	114	113	104	121
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	115	102	106	107	104
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	115	68	87	63	62
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	114	96	93	90	96
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	119	103	97	102	101
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	151	98	90	97	105
Extracted ISTD $^{13}C_8$ *FOSA*	%	98	94	94	100	104
Extracted ISTD d_3 *N MeFOSA*	%	80	74	76	72	78
Extracted ISTD d_5 *NEtFOSA*	%	87	70	66	70	70
Extracted ISTD d_7 *N MeFOSE*	%	113	102	94	102	108
Extracted ISTD d_9 *N EtFOSE*	%	116	96	94	96	98
Extracted ISTD d_3 *N MeFOSAA*	%	127	93	96	93	97
Extracted ISTD d_5 *N EtFOSAA*	%	107	108	92	92	101
Total Positive PFHxS & PFOS	mg/kg	0.030	0.01	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	0.025	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	0.030	0.01	<0.005	<0.005	<0.005

PFAS in TCLP Extended						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	7.0	8.8	9.0	9.2
pH of soil ASLP (after HCl)	pH units	1.9	1.8	1.9	1.9	1.9
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	0.07	0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	0.11	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	101	100	100	100	101

PFAS in TCLP Extended						
Our Reference		18085-1	18085-2	18085-3	18085-4	18085-5
Your Reference	UNITS	CAG-CAT01-SB01-0.2	CAG-CAT01-SB01-0.5	CAG-CAT01-SB01-1.0	CAG-CAT01-SB01-1.5	CAG-CAT01-SB01-2.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Surrogate $^{13}C_2$ PFOA	%	103	105	103	101	104
Extracted ISTD $^{13}C_3$ *PFBS*	%	98	96	93	95	94
Extracted ISTD $^{18}O_2$ *PFHxS*	%	104	104	103	101	103
Extracted ISTD $^{13}C_4$ *PFOS*	%	99	99	97	97	95
Extracted ISTD $^{13}C_4$ *PFBA*	%	82	86	88	87	87
Extracted ISTD $^{13}C_3$ *PFPeA*	%	95	93	94	92	91
Extracted ISTD $^{13}C_2$ *PFHxA*	%	98	99	97	95	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	101	99	101	101	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	113	112	110	113	107
Extracted ISTD $^{13}C_5$ *PFNA*	%	117	114	114	112	108
Extracted ISTD $^{13}C_2$ *PFDA*	%	118	119	113	113	113
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	133	127	128	119	119
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	113	100	103	104	100
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	140	100	99	118	102
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	100	89	93	88	88
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	119	115	117	114	108
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99	97	101	97	95
Extracted ISTD $^{13}C_8$ *FOSA*	%	102	102	98	97	97
Extracted ISTD d_3 *N MeFOSA*	%	113	112	109	112	110
Extracted ISTD d_5 *NEtFOSA*	%	111	128	126	128	126
Extracted ISTD d_7 *N MeFOSE*	%	125	120	121	124	120
Extracted ISTD d_9 *N EtFOSE*	%	128	126	122	122	119
Extracted ISTD d_3 *N MeFOSAA*	%	109	109	106	103	105
Extracted ISTD d_5 *N EtFOSAA*	%	107	110	107	107	101
Total Positive PFHxS & PFOS	µg/L	0.18	0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	0.11	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	0.18	0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	8.8	9.6	9.4	9.1
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.8	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	5.0	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	0.13	0.21	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	0.13	0.07	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	104	101	99	99
Surrogate $^{13}C_2$ PFOA	%	102	105	105	104	105

PFAS in TCLP Extended						
Our Reference		18085-6	18085-7	18085-8	18085-9	18085-10
Your Reference	UNITS	CAG-CAT01-SB01-3.0	CAG-CAT01-SB01-4.0	CAG-CAT01-SB02-0.2	CAG-CAT01-SB02-0.5	CAG-CAT01-SB02-1.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	96	96	95	94	95
Extracted ISTD $^{18}O_2$ *PFHxS*	%	103	102	99	99	99
Extracted ISTD $^{13}C_4$ *PFOS*	%	95	97	96	99	99
Extracted ISTD $^{13}C_4$ *PFBA*	%	90	91	89	89	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	94	92	93	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%	97	98	96	94	95
Extracted ISTD $^{13}C_4$ *PFHpA*	%	101	99	99	100	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	110	110	108	108	104
Extracted ISTD $^{13}C_5$ *PFNA*	%	107	110	112	112	106
Extracted ISTD $^{13}C_2$ *PFDA*	%	111	115	115	115	111
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	124	124	118	122	114
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	98	103	104	102	101
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	104	107	111	104	99
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	88	89	88	88	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	111	113	114	110	104
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	96	97	99	94	94
Extracted ISTD $^{13}C_8$ *FOSA*	%	99	99	99	100	100
Extracted ISTD d_3 *N MeFOSA*	%	113	109	115	111	112
Extracted ISTD d_5 *NEtFOSA*	%	132	128	135	126	130
Extracted ISTD d_7 *N MeFOSE*	%	125	121	121	124	127
Extracted ISTD d_9 *N EtFOSE*	%	123	119	125	120	125
Extracted ISTD d_3 *N MeFOSAA*	%	101	107	107	103	103
Extracted ISTD d_5 *N EtFOSAA*	%	97	108	103	101	104
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	0.26	0.28	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	0.13	0.07	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	0.26	0.28	<0.05

PFAS in TCLP Extended						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	9.7	9.4	9.1	8.6
pH of soil ASLP (after HCl)	pH units	1.8	1.9	1.8	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	0.14
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	0.10
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	100	100	101	101	98
Surrogate $^{13}C_2$ PFOA	%	105	105	103	104	106

PFAS in TCLP Extended						
Our Reference		18085-11	18085-12	18085-13	18085-14	18085-15
Your Reference	UNITS	CAG-CAT01-SB02-1.5	CAG-CAT01-SB02-2.0	CAG-CAT01-SB02-3.0	CAG-CAT01-SB02-4.0	CAG-CAT01-SB03-0.2
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	97	96	96	98	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	102	101	102	101	99
Extracted ISTD $^{13}C_4$ *PFOS*	%	98	98	98	99	100
Extracted ISTD $^{13}C_4$ *PFBA*	%	91	74	90	91	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%	93	91	95	94	93
Extracted ISTD $^{13}C_2$ *PFHxA*	%	95	94	96	98	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	99	98	99	102	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	109	106	107	109	108
Extracted ISTD $^{13}C_5$ *PFNA*	%	109	108	110	112	106
Extracted ISTD $^{13}C_2$ *PFDA*	%	113	110	112	117	112
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	118	113	118	121	120
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	93	86	100	104	99
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	80	80	104	97	100
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	86	86	92	92	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	110	111	111	116	114
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	91	93	97	105	96
Extracted ISTD $^{13}C_8$ *FOSA*	%	97	98	100	101	101
Extracted ISTD d_3 *N MeFOSA*	%	104	101	109	108	104
Extracted ISTD d_5 *NEtFOSA*	%	115	114	123	123	120
Extracted ISTD d_7 *N MeFOSE*	%	116	116	118	121	123
Extracted ISTD d_9 *N EtFOSE*	%	116	113	120	117	121
Extracted ISTD d_3 *N MeFOSAA*	%	103	100	106	106	105
Extracted ISTD d_5 *N EtFOSAA*	%	101	100	108	111	100
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	0.24
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	0.1
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	0.24

PFAS in TCLP Extended						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	9.2	9.3	9.3	9.0
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.8	1.8	1.7
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	4.9	4.9	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	103	105	103	101	101
Surrogate $^{13}C_2$ PFOA	%	104	102	105	104	103

PFAS in TCLP Extended						
Our Reference		18085-16	18085-17	18085-18	18085-19	18085-20
Your Reference	UNITS	CAG-CAT01-SB03-0.5	CAG-CAT01-SB03-1.0	CAG-CAT01-SB03-1.5	CAG-CAT01-SB03-2.0	CAG-CAT01-SB03-3.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	96	96	97	96	95
Extracted ISTD $^{18}O_2$ *PFHxS*	%	103	102	101	99	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	96	98	96	96
Extracted ISTD $^{13}C_4$ *PFBA*	%	92	91	92	90	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%	95	95	94	92	93
Extracted ISTD $^{13}C_2$ *PFHxA*	%	97	95	96	93	95
Extracted ISTD $^{13}C_4$ *PFHpA*	%	102	98	100	97	97
Extracted ISTD $^{13}C_4$ *PFOA*	%	110	109	107	107	106
Extracted ISTD $^{13}C_5$ *PFNA*	%	113	112	109	108	112
Extracted ISTD $^{13}C_2$ *PFDA*	%	120	117	115	110	111
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	120	128	116	110	119
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	108	116	98	96	95
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	111	126	87	73	78
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	92	88	87	87	88
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	112	112	110	107	113
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	102	104	103	105	103
Extracted ISTD $^{13}C_8$ *FOSA*	%	102	103	98	97	96
Extracted ISTD d_3 *N MeFOSA*	%	115	116	103	102	100
Extracted ISTD d_5 *NEtFOSA*	%	134	138	115	109	107
Extracted ISTD d_7 *N MeFOSE*	%	125	125	121	115	116
Extracted ISTD d_9 *N EtFOSE*	%	122	133	116	112	114
Extracted ISTD d_3 *N MeFOSAA*	%	108	106	104	103	108
Extracted ISTD d_5 *N EtFOSAA*	%	105	105	107	101	103
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	8.8	8.6	7.8	8.2	9.0
pH of soil ASLP (after HCl)	pH units	1.7	1.8	1.7	1.7	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	0.06	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	0.09	0.09	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	0.13	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	0.09	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	102	99	98	104	96
Surrogate $^{13}C_2$ PFOA	%	104	103	105	106	105

PFAS in TCLP Extended						
Our Reference		18085-21	18085-22	18085-23	18085-24	18085-25
Your Reference	UNITS	CAG-CAT01-SB03-4.0	CAG-CAT01-SB04-0.2	CAG-CAT01-SB04-0.5	CAG-CAT01-SB04-1.0	CAG-CAT01-SB04-1.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	100	99	95	97	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	105	104	100	106	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	104	96	100	102
Extracted ISTD $^{13}C_4$ *PFBA*	%	96	95	93	97	93
Extracted ISTD $^{13}C_3$ *PFPeA*	%	98	99	94	97	94
Extracted ISTD $^{13}C_2$ *PFHxA*	%	100	100	96	101	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	105	104	99	103	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	113	116	111	116	110
Extracted ISTD $^{13}C_5$ *PFNA*	%	117	119	111	117	112
Extracted ISTD $^{13}C_2$ *PFDA*	%	117	124	116	122	119
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	123	131	120	124	124
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	97	104	100	105	101
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	73	74	78	80	81
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	95	97	91	97	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	121	122	122	123	117
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	106	108	102	104	105
Extracted ISTD $^{13}C_8$ *FOSA*	%	101	103	97	100	97
Extracted ISTD d_3 *N MeFOSA*	%	101	103	98	105	101
Extracted ISTD d_5 *NEtFOSA*	%	107	109	104	109	109
Extracted ISTD d_7 *N MeFOSE*	%	118	119	117	120	116
Extracted ISTD d_9 *N EtFOSE*	%	112	119	115	112	116
Extracted ISTD d_3 *N MeFOSAA*	%	108	108	103	114	104
Extracted ISTD d_5 *N EtFOSAA*	%	113	107	103	111	102
Total Positive PFHxS & PFOS	µg/L	<0.05	0.22	0.09	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	0.13	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	0.22	0.24	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.1	9.1	8.9	9.0	8.6
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.8	1.8	1.7
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9	5.4	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	0.13	0.13
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	0.14	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	100	105	102	101
Surrogate $^{13}C_2$ PFOA	%	105	106	109	105	103

PFAS in TCLP Extended						
Our Reference		18085-26	18085-27	18085-28	18085-29	18085-30
Your Reference	UNITS	CAG-CAT01-SB04-2.0	CAG-CAT01-SB04-3.0	CAG-CAT01-SB04-4.0	CAG-CAT01-SB05-0.2	CAG-CAT01-SB05-0.5
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	97	96	95	97	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	106	103	102	105	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	99	103	92	100	102
Extracted ISTD $^{13}C_4$ *PFBA*	%	95	95	93	91	97
Extracted ISTD $^{13}C_3$ *PFPeA*	%	95	97	94	95	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%	100	100	96	99	100
Extracted ISTD $^{13}C_4$ *PFHpA*	%	101	102	99	103	104
Extracted ISTD $^{13}C_4$ *PFOA*	%	114	114	108	111	117
Extracted ISTD $^{13}C_5$ *PFNA*	%	115	114	110	114	119
Extracted ISTD $^{13}C_2$ *PFDA*	%	119	123	116	123	121
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	119	127	120	125	127
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	100	117	93	92	105
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	78	74	52	55	74
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	91	93	89	96	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	123	119	114	117	132
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	98	100	94	104	104
Extracted ISTD $^{13}C_8$ *FOSA*	%	101	103	94	100	103
Extracted ISTD d_3 *N MeFOSA*	%	103	101	98	99	107
Extracted ISTD d_5 *NEtFOSA*	%	109	111	100	99	116
Extracted ISTD d_7 *N MeFOSE*	%	120	120	114	120	126
Extracted ISTD d_9 *N EtFOSE*	%	120	121	111	120	125
Extracted ISTD d_3 *N MeFOSAA*	%	108	109	101	109	109
Extracted ISTD d_5 *N EtFOSAA*	%	109	109	105	105	105
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	0.27	0.13
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	0.14	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	0.27	0.13

PFAS in TCLP Extended						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.5	9.2	9.6	9.4	9.3
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.9	1.8	1.7
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	4.9	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	102	102	103	101
Surrogate $^{13}C_2$ PFOA	%	106	104	108	104	101

PFAS in TCLP Extended						
Our Reference		18085-31	18085-32	18085-33	18085-34	18085-35
Your Reference	UNITS	CAG-CAT01-SB05-1.0	CAG-CAT01-SB05-1.5	CAG-CAT01-SB05-2.0	CAG-CAT01-SB05-3.0	CAG-CAT01-SB05-4.0
Date Sampled		09/09/2019	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	96	97	96	98	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	100	101	106	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	98	95	94	102	98
Extracted ISTD $^{13}C_4$ *PFBA*	%	93	92	82	94	93
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	94	91	96	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%	94	96	95	99	98
Extracted ISTD $^{13}C_4$ *PFHpA*	%	97	99	97	103	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	106	110	109	114	112
Extracted ISTD $^{13}C_5$ *PFNA*	%	111	109	113	114	114
Extracted ISTD $^{13}C_2$ *PFDA*	%	113	113	114	121	121
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	114	120	119	122	128
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	92	103	99	98	98
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	78	93	107	73	73
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	82	87	92	88	91
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	108	114	120	124	114
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	96	102	95	110	103
Extracted ISTD $^{13}C_8$ *FOSA*	%	99	98	97	103	97
Extracted ISTD d_3 *N MeFOSA*	%	101	105	108	104	96
Extracted ISTD d_5 *NEtFOSA*	%	111	116	127	108	103
Extracted ISTD d_7 *N MeFOSE*	%	119	119	120	124	120
Extracted ISTD d_9 *N EtFOSE*	%	116	120	122	118	113
Extracted ISTD d_3 *N MeFOSAA*	%	102	103	105	108	104
Extracted ISTD d_5 *N EtFOSAA*	%	99	104	99	108	109
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.1	9.5	9.5	9.1	8.8
pH of soil ASLP (after HCl)	pH units	1.8	1.7	1.8	1.8	1.7
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	0.07	0.21	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	0.14	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	99	101	101	105
Surrogate $^{13}C_2$ PFOA	%	104	104	104	102	105

PFAS in TCLP Extended						
Our Reference		18085-36	18085-37	18085-38	18085-39	18085-40
Your Reference	UNITS	CAG-CAT01-SB06-0.2	CAG-CAT01-SB06-0.5	CAG-CAT01-SB06-1.0	CAG-CAT01-SB06-1.5	CAG-CAT01-SB06-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	97	95	97	98	94
Extracted ISTD $^{18}O_2$ *PFHxS*	%	106	101	104	107	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	98	100	103	96
Extracted ISTD $^{13}C_4$ *PFBA*	%	95	93	95	97	93
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	92	94	95	94
Extracted ISTD $^{13}C_2$ *PFHxA*	%	97	94	97	99	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	100	100	100	103	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	117	111	111	117	109
Extracted ISTD $^{13}C_5$ *PFNA*	%	118	112	111	117	113
Extracted ISTD $^{13}C_2$ *PFDA*	%	117	117	121	122	118
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	119	114	121	129	126
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	92	92	93	97	100
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	59	54	69	78	92
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	91	82	88	95	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	116	112	115	126	115
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	112	95	103	105	97
Extracted ISTD $^{13}C_8$ *FOSA*	%	99	101	100	102	98
Extracted ISTD d_3 *N MeFOSA*	%	92	97	95	99	104
Extracted ISTD d_5 *NEtFOSA*	%	95	99	99	108	120
Extracted ISTD d_7 *N MeFOSE*	%	115	117	120	122	118
Extracted ISTD d_9 *N EtFOSE*	%	116	117	113	119	117
Extracted ISTD d_3 *N MeFOSAA*	%	110	102	107	110	107
Extracted ISTD d_5 *N EtFOSAA*	%	107	105	103	110	99
Total Positive PFHxS & PFOS	µg/L	0.21	0.21	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	0.14	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	0.21	0.21	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	8.8	7.6	8.6	9.2	9.5
pH of soil ASLP (after HCl)	pH units	1.7	1.8	1.8	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	5.0	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	0.12	0.06	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	0.13	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	101	99	100	101	103
Surrogate $^{13}C_2$ PFOA	%	103	104	101	104	104

PFAS in TCLP Extended						
Our Reference		18085-41	18085-42	18085-43	18085-44	18085-45
Your Reference	UNITS	CAG-CAT01-SB06-3.0	CAG-CAT01-SB06-4.0	CAG-CAT01-SB07-0.2	CAG-CAT01-SB07-0.5	CAG-CAT01-SB07-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	99	96	98	99	103
Extracted ISTD $^{18}O_2$ *PFHxS*	%	106	105	105	104	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	102	100	105	100	100
Extracted ISTD $^{13}C_4$ *PFBA*	%	96	95	98	98	99
Extracted ISTD $^{13}C_3$ *PFPeA*	%	97	95	98	98	99
Extracted ISTD $^{13}C_2$ *PFHxA*	%	101	97	100	100	100
Extracted ISTD $^{13}C_4$ *PFHpA*	%	103	101	106	102	105
Extracted ISTD $^{13}C_4$ *PFOA*	%	117	112	117	113	115
Extracted ISTD $^{13}C_5$ *PFNA*	%	116	115	120	112	118
Extracted ISTD $^{13}C_2$ *PFDA*	%	125	121	123	118	123
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	125	132	127	119	129
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	101	105	103	89	108
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	72	91	98	62	98
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	94	93	99	97	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	119	118	125	120	123
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	112	98	110	109	109
Extracted ISTD $^{13}C_8$ *FOSA*	%	100	100	103	96	102
Extracted ISTD d_3 *N MeFOSA*	%	100	97	100	82	90
Extracted ISTD d_5 *NEtFOSA*	%	108	103	105	81	95
Extracted ISTD d_7 *N MeFOSE*	%	118	120	119	113	113
Extracted ISTD d_9 *N EtFOSE*	%	116	120	119	104	111
Extracted ISTD d_3 *N MeFOSAA*	%	110	111	115	109	112
Extracted ISTD d_5 *N EtFOSAA*	%	110	108	113	108	109
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	0.25	0.06	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	0.13	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	0.25	0.06	<0.05

PFAS in TCLP Extended						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.6	9.6	9.1	9.0	8.8
pH of soil ASLP (after HCl)	pH units	1.8	4.8	1.8	1.7	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.3	6.3	5.9	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	0.13
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	0.20
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	100	99	102	105
Surrogate $^{13}C_2$ PFOA	%	105	103	105	104	101

PFAS in TCLP Extended						
Our Reference		18085-46	18085-47	18085-48	18085-49	18085-50
Your Reference	UNITS	CAG-CAT01-SB07-1.5	CAG-CAT01-SB07-2.0	CAG-CAT01-SB07-3.0	CAG-CAT01-SB07-4.0	CAG-CAT01-SB08-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	101	99	98	96	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	107	106	107	105	105
Extracted ISTD $^{13}C_4$ *PFOS*	%	108	103	103	100	100
Extracted ISTD $^{13}C_4$ *PFBA*	%	98	81	82	96	97
Extracted ISTD $^{13}C_3$ *PFPeA*	%	99	94	93	94	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%	101	98	99	98	99
Extracted ISTD $^{13}C_4$ *PFHpA*	%	107	101	103	100	103
Extracted ISTD $^{13}C_4$ *PFOA*	%	120	115	115	112	119
Extracted ISTD $^{13}C_5$ *PFNA*	%	119	115	117	116	117
Extracted ISTD $^{13}C_2$ *PFDA*	%	124	116	121	120	126
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	130	121	126	126	119
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	108	97	102	100	94
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	144	106	142	84	82
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	97	94	96	92	93
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	133	127	130	121	128
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	111	102	104	110	109
Extracted ISTD $^{13}C_8$ *FOSA*	%	108	104	105	102	103
Extracted ISTD d_3 *N MeFOSA*	%	112	102	108	93	91
Extracted ISTD d_5 *NEtFOSA*	%	124	109	127	97	89
Extracted ISTD d_7 *N MeFOSE*	%	126	118	124	122	117
Extracted ISTD d_9 *N EtFOSE*	%	124	117	127	115	116
Extracted ISTD d_3 *N MeFOSAA*	%	112	106	112	107	109
Extracted ISTD d_5 *N EtFOSAA*	%	111	103	111	100	106
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	0.33
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	0.20
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	0.33

PFAS in TCLP Extended						
Our Reference	UNITS	18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference		CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	9.4	8.8	9.5	9.0
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.8	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	6.3	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	0.09	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	97	104	103	99
Surrogate $^{13}C_2$ PFOA	%	103	107	105	105	103

PFAS in TCLP Extended						
Our Reference		18085-51	18085-52	18085-53	18085-54	18085-55
Your Reference	UNITS	CAG-CAT01-SB08-0.5	CAG-CAT01-SB08-1.0	CAG-CAT01-SB08-1.5	CAG-CAT01-SB08-2.0	CAG-CAT01-SB08-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	93	100	97	101	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	108	109	110	110
Extracted ISTD $^{13}C_4$ *PFOS*	%	96	104	99	104	103
Extracted ISTD $^{13}C_4$ *PFBA*	%	91	99	80	99	99
Extracted ISTD $^{13}C_3$ *PFPeA*	%	90	97	93	98	98
Extracted ISTD $^{13}C_2$ *PFHxA*	%	93	100	98	101	101
Extracted ISTD $^{13}C_4$ *PFHpA*	%	97	103	102	105	104
Extracted ISTD $^{13}C_4$ *PFOA*	%	108	112	112	117	119
Extracted ISTD $^{13}C_5$ *PFNA*	%	108	120	118	119	119
Extracted ISTD $^{13}C_2$ *PFDA*	%	114	124	120	134	127
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	118	133	115	135	126
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	94	98	91	113	98
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	74	84	79	110	84
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	88	93	89	98	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	114	119	123	122	125
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	96	109	108	112	114
Extracted ISTD $^{13}C_8$ *FOSA*	%	97	103	107	105	103
Extracted ISTD d_3 *N MeFOSA*	%	88	92	93	101	90
Extracted ISTD d_5 *NEtFOSA*	%	89	92	95	105	89
Extracted ISTD d_7 *N MeFOSE*	%	115	118	117	127	119
Extracted ISTD d_9 *N EtFOSE*	%	112	120	118	127	121
Extracted ISTD d_3 *N MeFOSAA*	%	101	115	107	113	108
Extracted ISTD d_5 *N EtFOSAA*	%	98	110	107	112	107
Total Positive PFHxS & PFOS	µg/L	0.09	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	0.09	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	8.1	9.1	9.3	9.2	9.5
pH of soil ASLP (after HCl)	pH units	1.7	1.8	1.8	1.8	2.1
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	0.19	0.17	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	0.11	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	98	101	104	104	98
Surrogate $^{13}C_2$ PFOA	%	104	100	103	103	104

PFAS in TCLP Extended						
Our Reference		18085-56	18085-57	18085-58	18085-59	18085-60
Your Reference	UNITS	CAG-CAT01-SB08-4.0	CAG-CAT01-SB09-0.2	CAG-CAT01-SB09-0.5	CAG-CAT01-SB09-1.0	CAG-CAT01-SB09-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	99	98	100	94	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%	105	103	103	97	99
Extracted ISTD $^{13}C_4$ *PFOS*	%	104	100	103	96	101
Extracted ISTD $^{13}C_4$ *PFBA*	%	99	99	98	92	92
Extracted ISTD $^{13}C_3$ *PFPeA*	%	96	100	98	93	93
Extracted ISTD $^{13}C_2$ *PFHxA*	%	99	110	100	93	92
Extracted ISTD $^{13}C_4$ *PFHpA*	%	103	109	103	97	99
Extracted ISTD $^{13}C_4$ *PFOA*	%	115	109	116	107	104
Extracted ISTD $^{13}C_5$ *PFNA*	%	120	97	114	105	107
Extracted ISTD $^{13}C_2$ *PFDA*	%	118	93	124	110	108
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	133	96	118	113	108
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	99	102	104	100	104
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	84	91	89	84	98
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	91	72	100	89	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	120	105	119	115	113
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	105	88	108	101	102
Extracted ISTD $^{13}C_8$ *FOSA*	%	104	118	102	97	101
Extracted ISTD d_3 *N MeFOSA*	%	91	115	96	90	92
Extracted ISTD d_5 *NEtFOSA*	%	93	123	95	92	93
Extracted ISTD d_7 *N MeFOSE*	%	117	116	123	111	113
Extracted ISTD d_9 *N EtFOSE*	%	118	113	119	110	113
Extracted ISTD d_3 *N MeFOSAA*	%	108	97	111	104	102
Extracted ISTD d_5 *N EtFOSAA*	%	106	77	110	108	99
Total Positive PFHxS & PFOS	µg/L	<0.05	0.30	0.17	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	0.11	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	0.30	0.17	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.6	9.6	8.9	9.4	9.5
pH of soil ASLP (after HCl)	pH units	4.9	2.0	1.8	2.1	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	6.3	5.5	5.0	5.3	5.5
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	0.10	0.17
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	0.16	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	100	99	99	99
Surrogate $^{13}C_2$ PFOA	%	100	98	100	98	98

PFAS in TCLP Extended						
Our Reference		18085-61	18085-62	18085-63	18085-64	18085-65
Your Reference	UNITS	CAG-CAT01-SB09-2.0	CAG-CAT01-SB09-3.0	CAG-CAT01-SB09-4.0	CAG-CAT01-SB10-0.2	CAG-CAT01-SB10-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	98	98	102	101	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	99	104	104	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	103	100	104	106	103
Extracted ISTD $^{13}C_4$ *PFBA*	%	78	82	95	94	86
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	94	99	100	95
Extracted ISTD $^{13}C_2$ *PFHxA*	%	93	90	96	96	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%	101	96	104	107	101
Extracted ISTD $^{13}C_4$ *PFOA*	%	107	107	113	110	111
Extracted ISTD $^{13}C_5$ *PFNA*	%	109	105	114	112	107
Extracted ISTD $^{13}C_2$ *PFDA*	%	111	105	111	116	109
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	105	101	102	104	101
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	103	81	91	98	113
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	141	69	83	83	121
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	87	86	93	93	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	124	112	124	124	118
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	111	108	109	113	113
Extracted ISTD $^{13}C_8$ *FOSA*	%	101	92	96	96	98
Extracted ISTD d_3 *N MeFOSA*	%	114	76	84	91	103
Extracted ISTD d_5 *NEtFOSA*	%	123	74	80	92	100
Extracted ISTD d_7 *N MeFOSE*	%	117	99	105	109	115
Extracted ISTD d_9 *N EtFOSE*	%	112	90	99	100	110
Extracted ISTD d_3 *N MeFOSAA*	%	104	104	110	111	108
Extracted ISTD d_5 *N EtFOSAA*	%	106	102	113	111	108
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	0.26	0.17
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	0.16	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	0.26	0.17

PFAS in TCLP Extended						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.5	9.5	9.6	8.8	8.8
pH of soil ASLP (after HCl)	pH units	1.8	1.8	2.2	1.9	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	6.2	5.1	6.3	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	100	99	101	106	102
Surrogate $^{13}C_2$ PFOA	%	100	96	101	100	98

PFAS in TCLP Extended						
Our Reference		18085-66	18085-67	18085-68	18085-69	18085-70
Your Reference	UNITS	CAG-CAT01-SB10-1.0	CAG-CAT01-SB10-1.5	CAG-CAT01-SB10-2.0	CAG-CAT01-SB10-3.0	CAG-CAT01-SB10-4.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	101	100	99	101	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%	103	103	104	106	105
Extracted ISTD $^{13}C_4$ *PFOS*	%	104	105	103	102	106
Extracted ISTD $^{13}C_4$ *PFBA*	%	98	92	76	96	96
Extracted ISTD $^{13}C_3$ *PFPeA*	%	99	97	93	97	98
Extracted ISTD $^{13}C_2$ *PFHxA*	%	110	94	91	97	97
Extracted ISTD $^{13}C_4$ *PFHpA*	%	107	101	100	106	104
Extracted ISTD $^{13}C_4$ *PFOA*	%	107	112	107	113	113
Extracted ISTD $^{13}C_5$ *PFNA*	%	97	113	113	113	114
Extracted ISTD $^{13}C_2$ *PFDA*	%	97	109	111	119	114
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	99	96	111	115	110
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	95	74	99	100	102
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	82	55	97	76	121
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	73	87	85	95	88
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	123	119	121	125
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	79	102	103	109	107
Extracted ISTD $^{13}C_8$ *FOSA*	%	116	93	105	100	102
Extracted ISTD d_3 *N MeFOSA*	%	107	70	101	92	105
Extracted ISTD d_5 *NEtFOSA*	%	115	66	98	92	111
Extracted ISTD d_7 *N MeFOSE*	%	111	97	117	114	120
Extracted ISTD d_9 *N EtFOSE*	%	109	83	112	101	117
Extracted ISTD d_3 *N MeFOSAA*	%	90	100	102	109	110
Extracted ISTD d_5 *N EtFOSAA*	%	75	102	103	107	109
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	9.7	9.6	9.7	9.5
pH of soil ASLP (after HCl)	pH units	1.8	1.9	1.9	5.0	4.9
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.1	5.6	5.1	6.4	6.3
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	0.21	0.24	0.06	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	0.17	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	98	104	97	99	104
Surrogate $^{13}C_2$ PFOA	%	97	104	104	99	102

PFAS in TCLP Extended						
Our Reference		18085-71	18085-72	18085-73	18085-74	18085-75
Your Reference	UNITS	CAG-CAT01-SB11-0.2	CAG-CAT01-SB11-0.5	CAG-CAT01-SB11-1.0	CAG-CAT01-SB11-1.5	CAG-CAT01-SB11-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	98	102	99	99	97
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	104	102	104	104
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	101	100	101	97
Extracted ISTD $^{13}C_4$ *PFBA*	%	95	90	92	80	76
Extracted ISTD $^{13}C_3$ *PFPeA*	%	96	96	93	93	90
Extracted ISTD $^{13}C_2$ *PFHxA*	%	94	97	91	95	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%	102	101	94	99	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	113	112	103	114	112
Extracted ISTD $^{13}C_5$ *PFNA*	%	111	115	107	112	113
Extracted ISTD $^{13}C_2$ *PFDA*	%	111	117	111	118	119
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	109	108	111	113	117
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	76	93	92	80	101
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	59	72	79	59	100
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	90	91	74	86	84
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	122	123	111	127	126
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	107	104	101	104	105
Extracted ISTD $^{13}C_8$ *FOSA*	%	94	98	96	102	102
Extracted ISTD d_3 *N MeFOSA*	%	67	86	91	76	89
Extracted ISTD d_5 *NEtFOSA*	%	64	84	89	66	80
Extracted ISTD d_7 *N MeFOSE*	%	101	109	113	105	112
Extracted ISTD d_9 *N EtFOSE*	%	90	108	105	94	112
Extracted ISTD d_3 *N MeFOSAA*	%	103	108	100	102	103
Extracted ISTD d_5 *N EtFOSAA*	%	101	106	99	98	107
Total Positive PFHxS & PFOS	µg/L	0.38	0.24	0.06	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	0.17	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	0.38	0.24	0.06	<0.05	<0.05

Method ID	Methodology Summary
AS1289.3.6.3	Determination Particle Size Analysis using AS1289.3.6.3 and AS1289.3.6.1 and in house method INORG-107. Clay fraction at <2um reported.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only as analysis outside of the APHA storage times.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311. Please note that the sample mass used may be scaled down from the default based on the sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.
Inorg-013	Cyanide - total determined colourimetrically after distillation, based on APHA latest edition, 4500-CN_C,E. Free cyanide determined colourimetrically after filtration and confirmed by diffusion. Solids are extracted in a caustic media prior to distillation and analysis.
Inorg-024	Hexavalent Chromium (Cr6+) - determined colourimetrically by discrete analyser. Water samples are filtered on receipt prior to analysis.
Inorg-036	Total Organic Carbon or Matter - A titrimetric method that measures the oxidisable organic content of soils.
Inorg-083	Based on APHA 4500 I. WAD Cyanide is determined colourimetrically by discrete analyser after it is distilled from a slightly acidified sample. Solids are extracted in a caustic media prior to distillation and analysis.
Metals-009	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.

Method ID	Methodology Summary
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Note, For OCs the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Note, the Total +ve Cresols or Phenols PQL is reflective of the lowest individual PQL and is therefore" Total +ve Cresols or Phenols" is simply a sum of the positive individual Cresols or Phenols.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
ORG-031	Acid herbicides and speciated phenols in soil by DCM:Acetone extraction with derivatisation and determination by GC-MS. Haloacetic acids in waters are derivatised and analysed by GC-ECD. Acid herbicides, speciated phenols, carbamates and ureas in water by DCM extraction with derivatisation and determination by GC-MS. Analysed by MPL, NATA accrediation 2901.
Org-035	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: VOC in soils						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-56
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
carbon tetrachloride	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
chlorobenzene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
chloroform	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	119	119
1,2-dichlorobenzene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	122	120
1,1-Dichloroethene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
methylene chloride	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MEK	mg/kg	5	Org-014	<5	1	<5	<5	0	[NT]	[NT]
styrene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,1,2-tetrachloroethane	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Tetrachloroethene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	118	117
1,1,1-trichloroethane	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	115	111
1,1,2-trichloroethane	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
trichloroethene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	117	116
Vinyl Chloride	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-014	99	1	98	98	0	99	98
Surrogate Dibromofluoromethane	%		Org-014	97	1	100	98	2	98	98
Surrogate Toluene-d_8	%		Org-014	101	1	100	99	1	99	101
Surrogate aaa-Trifluorotoluene	%		Org-014	112	1	108	108	0	113	109

QUALITY CONTROL: VOC in soils					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	13/09/2019	13/09/2019		[NT]	[NT]
carbon tetrachloride	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
chlorobenzene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
chloroform	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
methylene chloride	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
MEK	mg/kg	5	Org-014	[NT]	51	<5	<5	0	[NT]	[NT]
styrene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,1,1,2-tetrachloroethane	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
Tetrachloroethene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,1,1-trichloroethane	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
trichloroethene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-014	[NT]	51	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	0.5	Org-014	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-014	[NT]	51	97	98	1	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-014	[NT]	51	98	98	0	[NT]	[NT]
Surrogate Toluene-d_8	%		Org-014	[NT]	51	99	100	1	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-014	[NT]	51	108	106	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-15
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	25	Org-016	<25	1	<25	<25	0	107	98
vTRH C_6 - C_{10}	mg/kg	25	Org-016	<25	1	<25	<25	0	107	98
Benzene	mg/kg	0.2	Org-016	<0.2	1	<0.2	<0.2	0	108	97
Toluene	mg/kg	0.5	Org-016	<0.5	1	<0.5	<0.5	0	110	101
Ethylbenzene	mg/kg	1	Org-016	<1	1	<1	<1	0	104	96
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	106	99
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	106	99
Naphthalene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	94	1	91	91	0	93	93

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-35
Date extracted	-			[NT]	11	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	11	13/09/2019	13/09/2019		13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	11	<25	<25	0	98	89
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	11	<25	<25	0	98	89
Benzene	mg/kg	0.2	Org-016	[NT]	11	<0.2	<0.2	0	97	88
Toluene	mg/kg	0.5	Org-016	[NT]	11	<0.5	<0.5	0	100	91
Ethylbenzene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	95	87
m+p-xylene	mg/kg	2	Org-016	[NT]	11	<2	<2	0	98	89
o-Xylene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	97	88
Naphthalene	mg/kg	1	Org-014	[NT]	11	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	11	89	88	1	94	83

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-56
Date extracted	-			[NT]	21	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	21	13/09/2019	13/09/2019		13/09/2019	13/09/2019
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	21	<25	<25	0	99	96
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	21	<25	<25	0	98	96
Benzene	mg/kg	0.2	Org-016	[NT]	21	<0.2	<0.2	0	99	95
Toluene	mg/kg	0.5	Org-016	[NT]	21	<0.5	<0.5	0	102	98
Ethylbenzene	mg/kg	1	Org-016	[NT]	21	<1	<1	0	96	94
m+p-xylene	mg/kg	2	Org-016	[NT]	21	<2	<2	0	98	96
o-Xylene	mg/kg	1	Org-016	[NT]	21	<1	<1	0	97	96
Naphthalene	mg/kg	1	Org-014	[NT]	21	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	21	75	90	18	92	90

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-75
Date extracted	-			[NT]	31	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	31	13/09/2019	13/09/2019		13/09/2019	14/09/2019
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	31	<25	<25	0	100	86
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	31	<25	<25	0	100	86
Benzene	mg/kg	0.2	Org-016	[NT]	31	<0.2	<0.2	0	99	90
Toluene	mg/kg	0.5	Org-016	[NT]	31	<0.5	<0.5	0	103	90
Ethylbenzene	mg/kg	1	Org-016	[NT]	31	<1	<1	0	97	85
m+p-xylene	mg/kg	2	Org-016	[NT]	31	<2	<2	0	100	82
o-Xylene	mg/kg	1	Org-016	[NT]	31	<1	<1	0	99	85
Naphthalene	mg/kg	1	Org-014	[NT]	31	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	31	89	81	9	94	85

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	41	13/09/2019	13/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	41	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	41	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	41	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	41	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	41	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	41	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	41	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	41	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	41	90	92	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	13/09/2019	13/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	51	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	51	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	51	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	51	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	51	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	51	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	51	91	89	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	61	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	61	14/09/2019	14/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	61	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	61	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	61	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	61	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	61	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	61	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	61	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	61	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	61	89	84	6	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	71	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	71	14/09/2019	14/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	71	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	71	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	71	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	71	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	71	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	71	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	71	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	71	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	71	93	94	1	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-12
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	<50	1	<50	<50	0	91	88
TRH C_{15} - C_{28}	mg/kg	100	Org-003	<100	1	<100	<100	0	98	97
TRH C_{29} - C_{36}	mg/kg	100	Org-003	<100	1	<100	<100	0	93	93
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	<50	1	<50	<50	0	91	88
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	<100	1	<100	<100	0	98	97
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	<100	1	<100	<100	0	93	93
Surrogate o-Terphenyl	%		Org-003	79	1	82	82	0	77	76

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-32
Date extracted	-			[NT]	11	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	11	13/09/2019	13/09/2019		13/09/2019	13/09/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	11	<50	<50	0	89	96
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	98	90
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	107	94
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	11	<50	<50	0	89	96
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	98	90
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	11	<100	<100	0	107	94
Surrogate o-Terphenyl	%		Org-003	[NT]	11	82	82	0	76	72

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-52
Date extracted	-			[NT]	21	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	21	14/09/2019	14/09/2019		13/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	21	<50	<50	0	102	97
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	21	<100	<100	0	94	91
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	21	<100	<100	0	93	97
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	21	<50	<50	0	102	97
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	21	<100	<100	0	94	91
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	21	<100	<100	0	93	97
Surrogate o-Terphenyl	%		Org-003	[NT]	21	84	85	1	74	71

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-72
Date extracted	-			[NT]	31	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	31	13/09/2019	13/09/2019		14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	31	<50	<50	0	107	93
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	31	<100	<100	0	97	88
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	31	<100	<100	0	107	92
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	31	<50	<50	0	107	93
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	31	<100	<100	0	97	88
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	31	<100	<100	0	107	92
Surrogate o-Terphenyl	%		Org-003	[NT]	31	80	79	1	75	75

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	41	13/09/2019	13/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	41	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	41	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	41	78	78	0	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	51	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	51	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	51	78	79	1	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	61	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	61	14/09/2019	14/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	61	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	61	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	61	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	61	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	61	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	61	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	61	81	80	1	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	71	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	71	14/09/2019	14/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	71	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	71	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	71	79	79	0	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-13
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			14/09/2019	1	13/09/2019	13/09/2019		13/09/2019	14/09/2019
Naphthalene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	86	100
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	84	92
Acenaphthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	84	93
Phenanthrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	86	97
Anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	82	96
Pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	84	97
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	88	95
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	1	<0.05	<0.05	0	76	84
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	88	1	90	88	2	88	96

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-33
Date extracted	-			[NT]	11	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	11	14/09/2019	14/09/2019		14/09/2019	14/09/2019
Naphthalene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	100	131
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	98	127
Acenaphthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	96	#
Phenanthrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	98	140
Anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	96	138
Pyrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	100	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	98	#
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	11	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	11	<0.05	<0.05	0	88	112
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	11	92	100	8	94	118

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-56
Date extracted	-			[NT]	21	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	21	14/09/2019	14/09/2019		14/09/2019	14/09/2019
Naphthalene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	108	97
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	106	92
Acenaphthene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	118	94
Phenanthrene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	114	95
Anthracene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	114	95
Pyrene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	114	99
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	118	95
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	21	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	21	<0.05	<0.05	0	96	83
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	21	94	102	8	90	92

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-73
Date extracted	-			[NT]	31	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			[NT]	31	14/09/2019	14/09/2019		14/09/2019	15/09/2019
Naphthalene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	118	99
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	116	98
Acenaphthene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	132	115
Phenanthrene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	124	102
Anthracene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	122	103
Pyrene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	124	103
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	130	118
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	31	<0.05	<0.05	0	102	95
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	31	96	92	4	108	90

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	41	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	41	14/09/2019	14/09/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	41	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	41	94	100	6	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	51	96	98	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	61	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	61	14/09/2019	14/09/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	61	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	61	92	94	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	71	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	71	14/09/2019	14/09/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	71	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	71	98	96	2	[NT]	[NT]

QUALITY CONTROL: Speciated Phenols in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-56
Date extracted	-		Org-012	12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-		Org-012	14/09/2019	1	13/09/2019	13/09/2019		13/09/2019	14/09/2019
Phenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	90	101
2-Chlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	88	105
2-Methylphenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	82	86
3/4-Methylphenol	mg/kg	0.4	Org-012	<0.4	1	<0.4	<0.4	0	[NT]	[NT]
2-Nitrophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dimethylphenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,6-Dichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	88	94
2,4,5-Trichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4,6-Trichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dinitrophenol	mg/kg	2	Org-012	<2	1	<2	<2	0	[NT]	[NT]
4-Nitrophenol	mg/kg	4	Org-012	<4	1	<4	<4	0	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Pentachlorophenol	mg/kg	1	Org-012	<1	1	<1	<1	0	106	100
4-Chloro-3-Methylphenol	mg/kg	2	Org-012	<2	1	<2	<2	0	[NT]	[NT]
Surrogate Phenol-d_6	%		Org-012	82	1	80	78	3	90	92

QUALITY CONTROL: Speciated Phenols in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-		Org-012	[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-		Org-012	[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
Phenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2-Chlorophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2-Methylphenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
3/4-Methylphenol	mg/kg	0.4	Org-012	[NT]	51	<0.4	<0.4	0	[NT]	[NT]
2-Nitrophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2,4-Dimethylphenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2,4-Dichlorophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2,6-Dichlorophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2,4,5-Trichlorophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2,4,6-Trichlorophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
2,4-Dinitrophenol	mg/kg	2	Org-012	[NT]	51	<2	<2	0	[NT]	[NT]
4-Nitrophenol	mg/kg	4	Org-012	[NT]	51	<4	<4	0	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	mg/kg	0.2	Org-012	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Pentachlorophenol	mg/kg	1	Org-012	[NT]	51	<1	<1	0	[NT]	[NT]
4-Chloro-3-Methylphenol	mg/kg	2	Org-012	[NT]	51	<2	<2	0	[NT]	[NT]
Surrogate Phenol-d_6	%		Org-012	[NT]	51	82	82	0	[NT]	[NT]

QUALITY CONTROL: OCP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-56
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			14/09/2019	1	13/09/2019	13/09/2019		13/09/2019	14/09/2019
alpha-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	78	89
Hexachlorobenzene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	89
gamma-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	88
delta-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	94
Heptachlor Epoxide	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	84
gamma-Chlordane	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	88
alpha-chlordane	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	92
Dieldrin	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	94
Endrin	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	86	108
Endrin Aldehyde	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	86	100
Methoxychlor	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	88	1	90	88	2	88	92

QUALITY CONTROL: OCP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Hexachlorobenzene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	51	96	98	2	[NT]	[NT]

QUALITY CONTROL: OP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-56
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			14/09/2019	1	13/09/2019	13/09/2019		13/09/2019	14/09/2019
Azinphos-methyl	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	89
Chlorpyrifos-methyl	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dichlorovos	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	88
Fenitrothion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	74	81
Malathion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	88	1	90	88	2	88	92

QUALITY CONTROL: OP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
Azinphos-methyl	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Dichlorovos	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	51	96	98	2	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-56
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			14/09/2019	1	13/09/2019	13/09/2019		13/09/2019	14/09/2019
Aroclor 1016	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	75	90
Aroclor 1260	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	88	1	90	88	2	88	92

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	51	96	98	2	[NT]	[NT]

QUALITY CONTROL: Acid Herbicides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-16
Date extracted	-			12/09/2019	6	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			14/09/2019	6	14/09/2019	14/09/2019		14/09/2019	14/09/2019
2,4-D	mg/kg	0.5	ORG-031	<0.5	6	<0.5	<0.5	0	96	78
Fluroxypyr	mg/kg	0.2	ORG-031	<0.2	6	<0.2	<0.2	0	[NT]	[NT]
Picloram	mg/kg	0.5	ORG-031	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Triclopyr	mg/kg	0.5	ORG-031	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
2,4,5-T	mg/kg	0.5	ORG-031	<0.5	6	<0.5	<0.5	0	94	86
Surrogate: 2,4-DCPA	%		ORG-031	82	6	86	84	2	84	84

QUALITY CONTROL: Acid Herbicides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	66	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	66	14/09/2019	14/09/2019		[NT]	[NT]
2,4-D	mg/kg	0.5	ORG-031	[NT]	66	<0.5	<0.5	0	[NT]	[NT]
Fluroxypyr	mg/kg	0.2	ORG-031	[NT]	66	<0.2	<0.2	0	[NT]	[NT]
Picloram	mg/kg	0.5	ORG-031	[NT]	66	<0.5	<0.5	0	[NT]	[NT]
Triclopyr	mg/kg	0.5	ORG-031	[NT]	66	<0.5	<0.5	0	[NT]	[NT]
2,4,5-T	mg/kg	0.5	ORG-031	[NT]	66	<0.5	<0.5	0	[NT]	[NT]
Surrogate: 2,4-DCPA	%		ORG-031	[NT]	66	86	84	2	[NT]	[NT]

QUALITY CONTROL: SVOC in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-56
Date extracted	-			12/09/2019	1	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	14/09/2019
2,4-Dinitrotoluene	mg/kg	1	Org-012	<1	1	<1	<1	0	94	89
Nitrobenzene	mg/kg	1	Org-012	<1	1	<1	<1	0	102	95
Surrogate p-Terphenyl-d_{14}	%		Org-012	94	1	100	96	4	104	102

QUALITY CONTROL: SVOC in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	51	14/09/2019	14/09/2019		[NT]	[NT]
2,4-Dinitrotoluene	mg/kg	1	Org-012	[NT]	51	<1	<1	0	[NT]	[NT]
Nitrobenzene	mg/kg	1	Org-012	[NT]	51	<1	<1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	51	104	94	10	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-14
Date digested	-			13/09/2019	2	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			13/09/2019	2	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	2	4	5	22	101	96
Beryllium	mg/kg	1	Metals-020 ICP-AES	<1	2	1	1	0	111	100
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	2	<0.4	<0.4	0	102	89
Lead	mg/kg	1	Metals-020 ICP-AES	<1	2	20	25	22	97	93
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	2	<0.1	<0.1	0	106	110
Molybdenum	mg/kg	1	Metals-020 ICP-AES	<1	2	<1	<1	0	98	77
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	2	9	9	0	99	87
Selenium	mg/kg	2	Metals-020 ICP-AES	<2	2	<2	<2	0	100	82
Silver	mg/kg	1	Metals-020 ICP-AES	<1	2	<1	<1	0	104	106
Iron	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	109	#

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-34
Date digested	-			[NT]	12	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			[NT]	12	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	12	4	5	22	99	94
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	12	1	1	0	107	98
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	12	<0.4	<0.4	0	100	87
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	12	9	13	36	97	90
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	12	<0.1	<0.1	0	103	104
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	12	<1	<1	0	95	##
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	12	15	23	42	96	91

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-34
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	12	<2	<2	0	96	82
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	12	<1	<1	0	101	111
Iron	mg/kg	1	Metals-020 ICP-AES	[NT]	[NT]	[NT]	[NT]	[NT]	105	#

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-54
Date digested	-			[NT]	22	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			[NT]	22	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	22	<4	4	0	100	99
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	22	<1	<1	0	108	97
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	22	<0.4	<0.4	0	100	84
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	22	14	20	35	96	83
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	22	<0.1	<0.1	0	108	101
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	22	<1	<1	0	96	73
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	22	10	9	11	96	84
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	22	<2	<2	0	97	92
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	22	<1	<1	0	102	120
Iron	mg/kg	1	Metals-020 ICP-AES	[NT]	[NT]	[NT]	[NT]	[NT]	105	#

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-75
Date digested	-			[NT]	33	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			[NT]	33	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	33	<4	<4	0	99	103
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	33	<1	<1	0	108	97
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	33	<0.4	<0.4	0	99	82
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	33	8	6	29	94	83
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	33	<0.1	<0.1	0	108	99
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	33	<1	<1	0	96	##
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	33	7	10	35	97	81
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	33	<2	<2	0	98	94
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	33	<1	<1	0	103	126
Iron	mg/kg	1	Metals-020 ICP-AES	[NT]	[NT]	[NT]	[NT]	[NT]	104	80

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	42	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	42	13/09/2019	13/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	42	5	7	33	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	42	<1	<1	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	42	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	42	8	11	32	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	42	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	42	8	10	22	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	42	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	42	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	53	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	53	13/09/2019	13/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	53	8	6	29	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	53	2	1	67	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	53	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	53	24	20	18	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	53	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	53	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	53	19	19	0	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	53	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	53	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	62	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	62	13/09/2019	13/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	62	<4	<4	0	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	62	1	1	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	62	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	62	8	16	67	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	62	<0.1	<0.1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	62	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	62	9	15	50	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	62	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	62	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	73	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	73	13/09/2019	13/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	73	<4	6	40	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	73	1	1	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	73	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	73	14	21	40	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	73	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	73	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	73	14	18	25	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	73	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	73	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: Inorganics in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-16
Date prepared	-			12/09/2019	16	12/09/2019	12/09/2019		12/09/2019	12/09/2019
Date analysed	-			16/09/2019	16	16/09/2019	16/09/2019		16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	1	Inorg-024	<1	16	<1	<1	0	90	89
Total Cyanide	mg/kg	0.5	Inorg-013	<0.5	16	<0.5	<0.5	0	80	#
Weak Acid Dissociable Cyanide	mg/kg	0.5	Inorg-083	<0.5	16	<0.5	<0.5	0	80	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	16	9.1	9.2	1	101	[NT]
pH 1:5 soil:$CaCl_2$	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Total Organic Carbon (Walkley Black)	mg/kg	1000	Inorg-036	<1000	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: Inorganics in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	66	12/09/2019	12/09/2019		[NT]	[NT]
Date analysed	-			[NT]	66	16/09/2019	16/09/2019		[NT]	[NT]
Hexavalent Chromium, Cr^{6+}	mg/kg	1	Inorg-024	[NT]	66	<1	<1	0	[NT]	[NT]
Total Cyanide	mg/kg	0.5	Inorg-013	[NT]	66	<0.5	<0.5	0	[NT]	[NT]
Weak Acid Dissociable Cyanide	mg/kg	0.5	Inorg-083	[NT]	66	<0.5	<0.5	0	[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	66	9.0	9.9	10	[NT]	[NT]

QUALITY CONTROL: Cation exchange capacity						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-13
Exchangeable Ca	meq/100g	0.1	Metals-009	<0.1	9	7.4	7.2	3	97	84
Exchangeable K	meq/100g	0.1	Metals-009	<0.1	9	0.2	0.2	0	95	92
Exchangeable Mg	meq/100g	0.1	Metals-009	<0.1	9	1.5	1.3	14	91	85
Exchangeable Na	meq/100g	0.1	Metals-009	<0.1	9	0.4	0.4	0	103	92
Cation Exchange Capacity	meq/100g	1	Metals-009	<1	9	9.5	9.1	4	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-2
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	98	96
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	105	89
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	109	96
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	97	92
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	<0.005	1	0.009	0.01	11	103	106
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	85	84
Perfluorobutanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	105	107
Perfluoropentanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	106	101
Perfluorohexanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	98	93
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	104	100
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	104	108
Perfluorononanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	92	92
Perfluorodecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	94	100
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	75	78
Perfluorododecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	97	107
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	114	108
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	93	97
4:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	108	106
6:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	101	96
8:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	110	115
10:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	94	84
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	92	100
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	102	101
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	92	91
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	117	119
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	105	112
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	108	97
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	78	76
Surrogate $^{13}C_8$ PFOS	%		Org-035	97	1	103	95	8	102	104
Surrogate $^{13}C_2$ PFOA	%		Org-035	118	1	108	108	0	110	105
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	95	1	90	89	1	95	90

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-2
Extracted ISTD $^{18}O_2$ PFHxS	%		Org-035	101	1	92	92	0	97	99
Extracted ISTD $^{13}C_4$ PFOS	%		Org-035	101	1	97	97	0	97	93
Extracted ISTD $^{13}C_4$ PFBA	%		Org-035	99	1	89	90	1	96	88
Extracted ISTD $^{13}C_3$ PFPeA	%		Org-035	103	1	98	96	2	98	95
Extracted ISTD $^{13}C_2$ PFHxA	%		Org-035	105	1	96	100	4	104	98
Extracted ISTD $^{13}C_4$ PFHpA	%		Org-035	108	1	104	99	5	101	98
Extracted ISTD $^{13}C_4$ PFOA	%		Org-035	105	1	104	98	6	107	97
Extracted ISTD $^{13}C_5$ PFNA	%		Org-035	120	1	116	102	13	113	104
Extracted ISTD $^{13}C_2$ PFDA	%		Org-035	128	1	132	122	8	130	114
Extracted ISTD $^{13}C_2$ PFUnDA	%		Org-035	121	1	107	103	4	114	104
Extracted ISTD $^{13}C_2$ PFDoDA	%		Org-035	93	1	95	99	4	97	93
Extracted ISTD $^{13}C_2$ PFTeDA	%		Org-035	124	1	124	98	23	108	74
Extracted ISTD $^{13}C_2$ 4:2FTS	%		Org-035	99	1	91	100	9	102	90
Extracted ISTD $^{13}C_2$ 6:2FTS	%		Org-035	112	1	109	96	13	99	94
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-035	114	1	118	127	7	109	107
Extracted ISTD $^{13}C_8$ FOSA	%		Org-035	100	1	97	97	0	98	89
Extracted ISTD d_3 N MeFOSA	%		Org-035	90	1	84	86	2	82	88
Extracted ISTD d_5 NEtFOSA	%		Org-035	96	1	91	81	12	85	95
Extracted ISTD d_7 N MeFOSE	%		Org-035	102	1	97	104	7	87	97
Extracted ISTD d_9 N EtFOSE	%		Org-035	103	1	102	96	6	100	103

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-2
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	108	1	97	97	0	106	86
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	102	1	93	90	3	112	89

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-22
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	102	106
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	104	107
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	107
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	100	110
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	99	114
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	83	88
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	102	101
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	106
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	104	102
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	106
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	102	101
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	106	103
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	102
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	108	98
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	102	100
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	78	85
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	100
4:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	100	105
6:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	107	111
8:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	116	114
10:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	108	118
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	104
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	105	104
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	102	99
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	110	104
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	104	98
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	99
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	99	107
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	11	101	106	5	99	100
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	11	109	106	3	100	101
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	11	94	90	4	90	86

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-22
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	11	98	96	2	88	88
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	11	93	84	10	95	86
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	11	80	81	1	78	81
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	11	93	89	4	93	89
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	11	98	95	3	89	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	11	94	92	2	99	89
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	11	92	93	1	96	100
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	11	110	105	5	102	93
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	11	106	105	1	107	111
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	11	126	135	7	107	110
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	11	105	123	16	107	118
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	11	39	61	44	96	106
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	11	101	101	0	94	93
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	11	110	102	8	104	123
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	11	104	98	6	112	137
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	11	95	99	4	94	95
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	11	106	113	6	83	88
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	11	112	126	12	77	81
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	11	88	100	13	87	95
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	11	89	89	0	81	92

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-22
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	11	120	107	11	105	103
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	11	119	114	4	104	82

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-42
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	107	107
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	106	114
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	99	106
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	112	120
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	100	107
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	79	85
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	99	102
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	106	109
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	99	102
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	107	110
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	103	106
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	101	104
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	98	100
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	100	95
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	103	105
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	85	81
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	101	107
4:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	99	108
6:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	116	112
8:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	117	124
10:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	128	117
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	103	103
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	101	105
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	101	104
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	103	108
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	101	107
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	107	116
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	104	103
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	21	101	103	2	100	100
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	21	102	99	3	104	103
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	21	86	86	0	84	81

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-42
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	21	86	86	0	88	82
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	21	87	88	1	87	78
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	21	77	77	0	87	81
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	21	86	86	0	88	81
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	21	87	87	0	90	86
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	21	88	87	1	91	83
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	21	87	90	3	93	84
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	21	90	90	0	99	87
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	21	91	94	3	108	92
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	21	88	91	3	112	101
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	21	77	74	4	106	81
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	21	86	79	8	86	64
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	21	86	87	1	97	83
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	21	85	89	5	96	86
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	21	88	93	6	104	84
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	21	87	91	4	93	86
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	21	73	75	3	83	72
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	21	70	69	1	77	65
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	21	85	83	2	93	83
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	21	75	79	5	87	76

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-42
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	21	85	89	5	103	84
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	21	79	81	2	99	83

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-62
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	99	106
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	102	116
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	100	112
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	94	99
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	100	104
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	96	89
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	105	110
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	102	107
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	95	102
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	103	107
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	105	103
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	89	92
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	98	102
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	79	82
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	97	111
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	126	139
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	103	105
4:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	104	113
6:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	92	100
8:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	105	130
10:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	101	103
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	95	105
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	99	101
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	102	106
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	103	102
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	110	110
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	100	108
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	84	78
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	31	103	101	2	97	98
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	31	101	99	2	117	104
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	31	88	87	1	93	87

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-62
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	31	91	87	4	94	89
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	31	88	89	1	95	97
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	31	86	85	1	97	85
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	31	87	86	1	100	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	31	89	88	1	99	98
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	31	89	88	1	101	94
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	31	93	92	1	97	97
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	31	92	90	2	108	103
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	31	109	95	14	120	116
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	31	100	108	8	117	107
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	31	88	88	0	109	84
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	31	54	80	39	93	52
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	31	90	88	2	99	91
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	31	99	91	8	102	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	31	118	93	24	113	85
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	31	90	92	2	98	92
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	31	67	76	13	84	75
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	31	59	72	20	81	70
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	31	78	89	13	102	96
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	31	70	83	17	101	94

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-62
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	31	87	82	6	105	90
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	31	86	85	1	107	98

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	41	103	103	0	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	41	104	101	3	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	41	86	85	1	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	41	88	86	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	41	83	86	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	41	83	84	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	41	84	85	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	41	87	89	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	41	86	85	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	41	91	93	2	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	41	92	95	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	41	99	96	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	41	101	99	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	41	83	82	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	41	66	49	30	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	41	88	91	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	41	90	87	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	41	91	85	7	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	41	91	89	2	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	41	78	71	9	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	41	72	64	12	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	41	89	85	5	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	41	82	77	6	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	41	87	88	1	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	41	86	79	8	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	51	104	98	6	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	51	107	105	2	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	51	86	84	2	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	51	90	88	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	51	84	86	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	51	87	86	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	51	86	85	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	51	89	86	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	51	89	88	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	51	95	90	5	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	51	95	94	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	51	108	102	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	51	117	103	13	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	51	105	91	14	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	51	109	71	42	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	51	90	90	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	51	98	91	7	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	51	106	97	9	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	51	94	90	4	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	51	76	81	6	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	51	70	77	10	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	51	100	90	11	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	51	93	81	14	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	51	90	87	3	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	51	89	83	7	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	61	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	61	92	101	9	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	61	112	110	2	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	61	93	89	4	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	61	93	91	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	61	97	93	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	61	88	83	6	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	61	95	96	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	61	97	96	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	61	98	93	5	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	61	98	95	3	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	61	108	107	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	61	133	116	14	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	61	103	96	7	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	61	87	80	8	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	61	67	47	35	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	61	94	95	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	61	101	94	7	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	61	102	100	2	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	61	95	91	4	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	61	79	73	8	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	61	81	72	12	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	61	100	92	8	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	61	92	88	4	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	61	91	94	3	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	61	95	101	6	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	71	0.005	0.006	18	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	71	0.025	0.025	0	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	71	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	71	105	95	10	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	71	115	107	7	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	71	96	88	9	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	71	100	97	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	71	96	99	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	71	93	96	3	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	71	100	99	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	71	102	99	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	71	100	102	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	71	103	99	4	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	71	108	118	9	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	71	125	131	5	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	71	110	112	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	71	115	111	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	71	115	103	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	71	114	104	9	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	71	119	114	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	71	151	144	5	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	71	98	104	6	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	71	80	82	2	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	71	87	82	6	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	71	113	101	11	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	71	116	114	2	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	71	127	132	4	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	71	107	106	1	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-2
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	117	120
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	114	115
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	<0.05	1	0.07	0.07	0	113	113
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	118	124
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	<0.05	1	0.11	0.09	20	109	107
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	115	100
Perfluorobutanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	115	110
Perfluoropentanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	121	125
Perfluorohexanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	116	111
Perfluoroheptanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	107	113
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	114	111
Perfluorononanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	111	100
Perfluorodecanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	113	108
Perfluoroundecanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	114	95
Perfluorododecanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	114	117
Perfluorotridecanoic acid	µg/L	0.1	Org-035	<0.1	1	<0.1	<0.1	0	102	87
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	<0.5	1	<0.5	<0.5	0	111	109
4:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	119	126
6:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	117	122
8:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	113	124
10:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	106	113
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	<0.1	1	<0.1	<0.1	0	114	108
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	114	114
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	<0.1	1	<0.1	<0.1	0	112	113
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	117	109
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	<0.5	1	<0.5	<0.5	0	106	95
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	116	121
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	120	123
Surrogate $^{13}C_8$ PFOS	%		Org-035	101	1	101	102	1	102	102
Surrogate $^{13}C_2$ PFOA	%		Org-035	103	1	103	106	3	101	106
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	98	1	98	97	1	96	92

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-2
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	104	1	104	103	1	98	98
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	99	1	99	96	3	96	92
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	82	1	82	83	1	86	81
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	95	1	95	94	1	92	88
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	98	1	98	97	1	89	92
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	101	1	101	100	1	95	92
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	113	1	113	112	1	100	100
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	117	1	117	113	3	100	102
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	118	1	118	119	1	109	107
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	133	1	133	125	6	100	111
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	113	1	113	110	3	107	92
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	140	1	140	119	16	102	100
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	100	1	100	95	5	85	80
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	119	1	119	114	4	129	100
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	99	1	99	101	2	117	88
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	102	1	102	100	2	113	94
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	113	1	113	106	6	107	107
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	111	1	111	103	7	104	122
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	125	1	125	122	2	111	116
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	128	1	128	129	1	112	120

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18085-2
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	109	1	109	110	1	112	102
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	107	1	107	109	2	103	100

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-22
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	127	116
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	122	115
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	118	117
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	125	123
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	113	118
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	102	93
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	116	108
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	129	123
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	115	110
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	115	110
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	114	108
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	109	101
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	109	104
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	100	94
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	117	112
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	11	<0.1	<0.1	0	89	77
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	11	<0.5	<0.5	0	116	109
4:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	126	119
6:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	126	115
8:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	120	111
10:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	109	98
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	11	<0.1	<0.1	0	118	106
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	119	110
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	11	<0.1	<0.1	0	118	110
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	120	110
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	11	<0.5	<0.5	0	110	98
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	124	121
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	131	124
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	11	100	105	5	102	102
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	11	105	109	4	107	104
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	11	97	96	1	86	95

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-22
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	11	102	99	3	94	100
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	11	98	97	1	92	94
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	11	91	92	1	84	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	11	93	93	0	84	90
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	11	95	92	3	88	92
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	11	99	94	5	91	96
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	11	109	105	4	97	104
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	11	109	108	1	99	106
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	11	113	110	3	104	116
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	11	118	118	0	105	117
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	11	93	92	1	95	94
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	11	80	83	4	88	83
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	11	86	77	11	82	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	11	110	108	2	102	108
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	11	91	98	7	93	102
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	11	97	98	1	89	95
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	11	104	105	1	99	101
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	11	115	118	3	108	108
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	11	116	117	1	104	113
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	11	116	115	1	104	113

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18085-22
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	11	103	97	6	106	104
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	11	101	100	1	90	102

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-42
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	120	118
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	119	116
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	112	114
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	120	118
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	109	107
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	95	98
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	109	108
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	124	121
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	104	106
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	124	109
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	105	108
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	99	97
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	103	102
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	95	92
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	115	118
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	21	<0.1	<0.1	0	91	80
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	21	<0.5	<0.5	0	111	107
4:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	117	119
6:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	122	122
8:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	122	113
10:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	116	109
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	21	<0.1	<0.1	0	111	105
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	112	109
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	21	<0.1	<0.1	0	113	114
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	109	108
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	21	<0.5	<0.5	0	102	97
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	123	116
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	125	123
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	21	102	102	0	99	101
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	21	104	103	1	103	103
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	21	100	99	1	95	94

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-42
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	21	105	105	0	102	99
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	21	100	99	1	98	97
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	21	96	94	2	92	91
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	21	98	96	2	89	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	21	100	99	1	97	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	21	105	102	3	98	97
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	21	113	113	0	109	106
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	21	117	112	4	109	108
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	21	117	122	4	117	119
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	21	123	128	4	118	121
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	21	97	105	8	100	99
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	21	73	81	10	112	96
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	21	95	92	3	91	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	21	121	121	0	110	105
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	21	106	103	3	93	104
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	21	101	98	3	97	97
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	21	101	102	1	102	100
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	21	107	114	6	115	99
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	21	118	122	3	116	116
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	21	112	118	5	118	115

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18085-42
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	21	108	110	2	110	110
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	21	113	112	1	112	103

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-62
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	113	115
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	113	115
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	110	112
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	110	112
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	105	108
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	103	115
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	108	109
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	117	116
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	109	110
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	104	106
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	109	109
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	102	106
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	108	112
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	108	113
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	115	112
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	31	<0.1	<0.1	0	122	74
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	31	<0.5	<0.5	0	108	110
4:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	113	112
6:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	112	113
8:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	110	111
10:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	68	83
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	31	<0.1	<0.1	0	107	111
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	112	111
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	31	<0.1	<0.1	0	106	109
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	108	110
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	31	<0.5	<0.5	0	100	103
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	106	107
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	111	118
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	31	99	105	6	104	103
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	31	106	105	1	101	101
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	31	96	97	1	95	96

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-62
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	31	101	100	1	95	97
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	31	98	95	3	97	98
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	31	93	93	0	90	80
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	31	94	93	1	90	90
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	31	94	97	3	89	90
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	31	97	100	3	95	96
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	31	106	110	4	102	101
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	31	111	112	1	102	101
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	31	113	120	6	103	103
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	31	114	126	10	90	94
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	31	92	92	0	65	93
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	31	78	88	12	59	128
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	31	82	89	8	81	85
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	31	108	116	7	109	111
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	31	96	99	3	101	103
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	31	99	97	2	86	93
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	31	101	101	0	65	114
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	31	111	114	3	61	121
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	31	119	115	3	83	108
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	31	116	114	2	70	105

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	18085-62
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	31	102	107	5	104	98
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	31	99	107	8	93	95

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	41	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	41	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	41	101	100	1	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	41	103	104	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	41	99	98	1	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	41	106	108	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	41	102	102	0	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	41	96	97	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	41	97	96	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	41	101	99	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	41	103	103	0	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	41	117	115	2	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	41	116	120	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	41	125	125	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	41	125	130	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	41	101	108	7	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	41	72	72	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	41	94	94	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	41	119	118	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	41	112	100	11	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	41	100	102	2	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	41	100	99	1	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	41	108	109	1	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	41	118	125	6	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	41	116	125	7	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	41	110	115	4	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	41	110	112	2	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	51	0.09	0.14	43	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	51	99	100	1	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	51	103	102	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	51	93	99	6	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	51	101	108	7	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	51	96	104	8	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	51	91	99	8	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	51	90	97	7	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	51	93	100	7	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	51	97	105	8	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	51	108	119	10	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	51	108	120	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	51	114	125	9	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	51	118	132	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	51	94	110	16	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	51	74	98	28	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	51	88	98	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	51	114	127	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	51	96	111	14	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	51	97	106	9	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	51	88	101	14	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	51	89	107	18	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	51	115	128	11	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	51	112	122	9	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	51	101	113	11	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	51	98	113	14	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	61	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	61	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	61	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	61	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	61	99	99	0	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	61	100	100	0	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	61	98	103	5	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	61	101	103	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	61	103	104	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	61	78	77	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	61	94	97	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	61	93	96	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	61	101	105	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	61	107	112	5	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	61	109	112	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	61	111	116	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	61	105	106	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	61	103	100	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	61	141	93	41	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	61	87	92	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	61	124	124	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	61	111	113	2	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	61	101	103	2	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	61	114	101	12	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	61	123	102	19	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	61	117	112	4	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	61	112	110	2	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	61	104	109	5	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	61	106	107	1	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	71	0.21	0.20	5	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	71	0.17	0.15	12	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	71	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	71	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	71	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	71	98	99	1	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	71	97	104	7	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	71	98	99	1	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	71	101	103	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	71	101	104	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	71	95	95	0	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	71	96	96	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	71	94	95	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	71	102	104	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	71	113	111	2	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	71	111	112	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	71	111	116	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	71	109	112	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	71	76	105	32	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	71	59	110	60	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	71	90	92	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	71	122	120	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	71	107	109	2	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	71	94	100	6	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	71	67	100	40	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	71	64	103	47	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	71	101	122	19	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	71	90	116	25	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	71	103	108	5	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	71	101	105	4	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Report Comments

PFAS, Asbestos and Clay analysed by Envirolab Sydney, report 225964

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

METALS: # Percent recovery is not possible to report due to the high concentration of Iron in the sample/s. However an acceptable recovery was obtained for the LCS.

Percent recovery not available for Molybdenum due to matrix interference, however an acceptable recovery was achieved for the LCS.

The RPD for duplicate results 18085-12 for Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

The RPD for duplicate results 18085-62 for Lead & Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

INORGS: # Low spike recovery was obtained for Total Cyanide due to matrix interferences from the sample. However, an acceptable recovery was obtained for the LCS.

SVOC: # Percent recovery not available due to sample matrix.

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

DATA QUALITY ASSESSMENT SUMMARY

Report Details

Envirolab Report Reference	**18085**
Client ID	Meinhardt
Project Reference	CAG-25-27 Catalina-ENV Assessment
Date Issued	17/09/2019

QC DATA

All laboratory QC data was within the Envirolab Group's specifications except:

QC Specification Exceptions

QC Type	Reference	Analysis	Comments
Precision (as %RPD)	18085-12	Nickel	42% RPD fails internal acceptance criteria
Precision (as %RPD)	18085-62	Lead	67% RPD fails internal acceptance criteria
Precision (as %RPD)	18085-62	Nickel	50% RPD fails internal acceptance criteria
Precision (as %RPD)	18085-73	Lead	40% RPD fails internal acceptance criteria
Spike Recovery %	18085-14	Iron	Fails internal acceptance criteria
Spike Recovery %	18085-16	Total Cyanide	Fails internal acceptance criteria
Spike Recovery %	18085-33	Chrysene	Fails internal acceptance criteria
Spike Recovery %	18085-33	Fluorene	Fails internal acceptance criteria
Spike Recovery %	18085-34	Iron	Fails internal acceptance criteria
Spike Recovery %	18085-34	Molybdenum	Fails internal acceptance criteria
Spike Recovery %	18085-54	Iron	Fails internal acceptance criteria
Spike Recovery %	18085-75	Molybdenum	Fails internal acceptance criteria

QC Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

METALS: # Percent recovery is not possible to report due to the high concentration of Iron in the sample/s. However an acceptable recovery was obtained for the LCS.

Percent recovery not available for Molybdenum due to matrix interference, however an acceptable recovery was achieved for the LCS.

The RPD for duplicate results 18085-12 for Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

The RPD for duplicate results 18085-62 for Lead & Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

INORGS: # Low spike recovery was obtained for Total Cyanide due to matrix interferences from the sample. However, an acceptable recovery was obtained for the LCS.

SVOC: # Percent recovery not available due to sample matrix.

See Report 18085-[R00] for QA/QC details

Envirolab Services Pty Ltd
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ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

HOLDING TIME COMPLIANCE EVALUATION

All preservation / holding times (based on AS/ASPHA/ISO/NEPM/USEPA reference documents and standards) are compliant.

Certain analyses have had their recommended technical holding times elongated by filtering and/or freezing on receipt at the laboratory (e.g. BOD, chlorophyll/Pheophytin, nutrients and acid sulphate soil tests).

COMPLIANCE TO QC FREQUENCY (NEPM)

Internal laboratory QC rate complies with NEPM requirements (LCS/MB/MS 1 in 20, Duplicates 1 in 10 samples). Note, samples are batched together with other sample consignments in order to assign QC sample frequency.

QC Evaluation	
Duplicate(s) was performed as per NEPM frequency	✓
Laboratory Control Sample(s) were analysed with the samples received	✓
A Method Blank was performed with the samples received	✓
Matrix spike(s) was performed as per NEPM frequency	✓

Refer to Certificate of Analysis for all Quality Control data.

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melbourne@envirolab.com.au
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SAMPLE RECEIPT ADVICE

Client Details

Client	Meinhardt
Attention	Sid Paleri

Sample Login Details

Your reference	CAG-25-27 Catalina-ENV Assessment
Envirolab Reference	18085
Date Sample Received	12/09/2019
Date Instructions Received	12/09/2019
Date Results Expected to be Reported	17/09/2019

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	75 Soil
Turnaround Time Requested	72hr
Temperature on Receipt (°C)	16.4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Pamela Adams	Analisa Mathrick
Phone: 03 9763 2500	**Phone: 03 9763 2500**
Fax: 03 9763 2633	**Fax: 03 9763 2633**
Email: padams@envirolab.com.au	**Email: amathrick@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

Sample ID	VOC in soils	vTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Speciated Phenols in Soil	OCP in Soil	OP in Soil	PCBsin Soil	Acid Herbicides in soil	SVOC in soil	NSW DECC Metals	Inorganics in soil	Cation exchange capacity	Asbestos ID - soils	PFAS in Soil Extended	PFAS in TCLP Extended
CAG-CAT01-SB01-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CAG-CAT01-SB01-0.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB01-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB01-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB01-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB01-3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB01-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB02-0.2		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB02-0.5		✓	✓	✓							✓	✓	✓		✓	✓
CAG-CAT01-SB02-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB02-1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB02-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB02-3.0		✓	✓	✓							✓	✓	✓		✓	✓
CAG-CAT01-SB02-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB03-0.2		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB03-0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CAG-CAT01-SB03-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB03-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB03-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB03-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB03-4.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB04-0.2		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB04-0.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB04-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB04-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB04-2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB04-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB04-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB05-0.2		✓	✓	✓							✓			✓	✓	✓
CAG-CAT01-SB05-0.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB05-1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB05-1.5		✓	✓	✓							✓				✓	✓

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

Sample ID	VOC in soils	vTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Speciated Phenols in Soil	OCP in Soil	OP in Soil	PCBsin Soil	Acid Herbicides in soil	SVOC in soil	NSW DECC Metals	Inorganics in soil	Cation exchange capacity	Asbestos ID - soils	PFAS in Soil Extended	PFAS in TCLP Extended
CAG-CAT01-SB05-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB05-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB05-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB06-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB06-0.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB06-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB06-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB06-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB06-3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB06-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB07-0.2		✓	✓	✓							✓	✓	✓		✓	✓
CAG-CAT01-SB07-0.5		✓	✓	✓							✓			✓	✓	✓
CAG-CAT01-SB07-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB07-1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB07-2.0		✓	✓	✓							✓	✓	✓		✓	✓
CAG-CAT01-SB07-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB07-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB08-0.2		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB08-0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB08-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB08-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB08-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB08-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB08-4.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB09-0.2		✓	✓	✓							✓			✓	✓	✓
CAG-CAT01-SB09-0.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB09-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB09-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB09-2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB09-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB09-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB10-0.2		✓	✓	✓							✓				✓	✓

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
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melbourne@envirolab.com.au
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Sample ID	VOC in soils	vTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Speciated Phenols in Soil	OCP in Soil	OP in Soil	PCBsin Soil	Acid Herbicides in soil	SVOC in soil	NSW DECC Metals	Inorganics in soil	Cation exchange capacity	Asbestos ID - soils	PFAS in Soil Extended	PFAS in TCLP Extended
CAG-CAT01-SB10-0.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB10-1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB10-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB10-2.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB10-3.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB10-4.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB11-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
CAG-CAT01-SB11-0.5		✓	✓	✓							✓	✓	✓	✓	✓	✓
CAG-CAT01-SB11-1.0		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB11-1.5		✓	✓	✓							✓				✓	✓
CAG-CAT01-SB11-2.0		✓	✓	✓							✓				✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 6 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB11-3.0	10.9.19			Soil	ESKY	ICE	x	x	x			x					
2	CAG-CAT01-SB11-4.0					ESKY	ICE		x	x	x							
3	CAG-CAT01-SB12-0.2					ESKY	ICE		x	x	x							
4	CAG-CAT01-SB12-0.5					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB12-1.0					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB12-1.5					ESKY	ICE	x	x	x								
7	CAG-CAT01-SB12-2.0					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB12-3.0					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB12-4.0					ESKY	ICE		x	x	x							
10	CAG-CAT01-SB13-0.2					ESKY	ICE		x	x	x	x						
11	CAG-CAT01-SB13-0.5					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB13-1.0					ESKY	ICE		x	x	x							
13	CAG-CAT01-SB13-1.5					ESKY	ICE		x	x	x							
14	CAG-CAT01-SB13-2.0					ESKY	ICE		x	x	x							
15	CAG-CAT01-SB13-3.0					ESKY	ICE		x	x	x							

PFAS in Soil LoR to be 0.005mg/kg

ENVIROLAB

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 18086
Date Received: 12/9/19 10.1°C
Time Received: 13
Received By: GS
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix: S = Soil, W= Water

Samples on Ice: ☑ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M.GIBBS		11/9/19	5:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 7 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB13-4.0	10.9.19			Soil	ESKY	ICE	x	x	x								
2	CAG-CAT01-SB14-0.2					ESKY	ICE		x	x	x							
3	CAG-CAT01-SB14-0.5					ESKY	ICE		x	x	x							PFAS in Soil LoR to be 0.005mg/kg
4	CAG-CAT01-SB14-1.0					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB14-1.5					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB14-2.0					ESKY	ICE	x	x	x								
7	CAG-CAT01-SB14-3.0					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB14-4.0					ESKY	ICE		x	x	x							
9	CAG-CAT01-SB15-0.2	11.9.19				ESKY	ICE		x	x	x							
10	CAG-CAT01-SB15-0.5					ESKY	ICE		x	x	x	x						
11	CAG-CAT01-SB15-1.0					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB15-1.5					ESKY	ICE		x	x	x							
13	CAG-CAT01-SB15-2.0					ESKY	ICE		x	x	x							
14	CAG-CAT01-SB15-3.0					ESKY	ICE		x	x	x							
15	CAG-CAT01-SB15-4.0					ESKY	ICE		x	x	x							

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix: S = Soil, W= Water

Samples on Ice: ☐ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M. GIBBS		11/9/19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 8 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB16-0.2	11.9.19			Soil	ESKY	ICE	x	x	x								
2	CAG-CAT01-SB16-0.5					ESKY	ICE		x	x	x		x					
3	CAG-CAT01-SB16-1.0					ESKY	ICE		x	x	x							PFAS in Soil LoR to be 0.005mg/kg
4	CAG-CAT01-SB16-1.5					ESKY	ICE		x	x	x							
5	CAG-CAT01-SB16-2.0					ESKY	ICE		x	x	x							
6	CAG-CAT01-SB16-3.0					ESKY	ICE	x	x	x			x					
7	CAG-CAT01-SB16-4.0					ESKY	ICE		x	x	x							
8	CAG-CAT01-SB17-0.2					ESKY	ICE		x	x	x	x						
9	CAG-CAT01-SB17-0.5					ESKY	ICE		x	x	x							
10	CAG-CAT01-SB17-1.0					ESKY	ICE		x	x	x							
11	CAG-CAT01-SB17-1.5					ESKY	ICE	x	x	x								
12	CAG-CAT01-SB17-2.0					ESKY	ICE		x	x	x							
13	CAG-CAT01-SB17-3.0					ESKY	ICE		x	x	x							
14	CAG-CAT01-SB17-4.0					ESKY	ICE		x	x	x							
15	FD01	9 9.19			"	ESKY	ICE		x	x	x							

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix (S = Soil) W= Water

Samples on Ice ☐ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M·GIBBS		11/9/19	15.00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 9 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
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Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	FS01	9.9.19			SOIL	ESKY	ICE		x	x	x							
2	FD02					ESKY	ICE		x	x	x							
3	FS02					ESKY	ICE		x	x	x							PFAS in Soil LoR to be 0.005mg/kg
4	FD03	10.9.19				ESKY	ICE		x	x	x	x						
5	FS03					ESKY	ICE		x	x	x	x						Please send FS01 – FS07 to ALS for Analysis Spiropole
6	FD04					ESKY	ICE		x	x	x							
7	FS04					ESKY	ICE		x	x	x							
8	FD05					ESKY	ICE		x	x	x							
9	FS05					ESKY	ICE		x	x	x							
10	FD06	11.9.19				ESKY	ICE		x	x	x							
11	FS06					ESKY	ICE		x	x	x							
12	FD07					ESKY	ICE		x	x	x							
13	FS07					ESKY	ICE		x	x	x							
14	CAG-CAT01-TB01					ESKY	ICE										x	
15	~~CAG-CAT01-TB02~~					ESKY	ICE										~~x~~	

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ☒ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M.GIBBS		11/9/19	15.00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 10 of 10

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Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			TRH C_6-C_{10}/BTEXN	COMMENTS
1	CAG-CAT01-SB02-7.0	09/9/19		NH	SOIL	ESKY	ICE		X	X	X							
2	" -SB06-6.0	10/9/19		MG	↓	ESKY	ICE		X	X	X							
3	" -SB17-6.0	11/9/19		MG	↓	ESKY	ICE		X	X	X							PFAS in Soil LoR to be 0.005mg/kg
4	CAG-CAT01 - MW01	11/9/19		SP	GW	ESKY	ICE							X				
5	CAG-CAT01-MW02	↓		SP	↓	ESKY	ICE							X				
6	CAG-CAT01-MW03	↓		SP	↓	ESKY	ICE							X				
7						ESKY	ICE											
8						ESKY	ICE											
9						ESKY	ICE											
10						ESKY	ICE											
11						ESKY	ICE											
12						ESKY	ICE											
13						ESKY	ICE											
14						ESKY	ICE											
15						ESKY	ICE											

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ☑ Yes ☐ No

NOTES:

- Metals includes full suite required by NSW DECC
- **PFAS in Soil LoR to be 0.005mg/kg**
- 8 Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M.GIBBS		11/9/19.	15.00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 18086

Client Details

Client	Meinhardt
Attention	Sid Paleri
Address	Level 12, 501 Swanston st, Melbourne, VIC, 3000

Sample Details

Your Reference	**CAG-25-27 Catalina-ENV Assessment**
Number of Samples	55 Soil, 3 Water
Date samples received	12/09/2019
Date completed instructions received	12/09/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	18/09/2019
Date of Issue	18/09/2019

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Pamela Adams, Laboratory Manager, Melbourne

Authorised By



Pamela Adams, Laboratory Manager

VOC in soils						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
carbon tetrachloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
chloroform	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
methylene chloride	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
MEK	mg/kg	<5	<5	<5	<5	<5
styrene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate 4-Bromofluorobenzene	%	97	96	97	98	97
Surrogate Dibromofluoromethane	%	87	90	89	90	91
Surrogate Toluene-d_8	%	96	96	96	95	96
Surrogate aaa-Trifluorotoluene	%	93	89	95	86	88

VOC in soils					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	16/09/2019	16/09/2019	16/09/2019
carbon tetrachloride	mg/kg	<0.5	<0.5	<0.5	<0.5
chlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
chloroform	mg/kg	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5
methylene chloride	mg/kg	<0.5	<0.5	<0.5	<0.5
MEK	mg/kg	<5	<5	<5	<5
styrene	mg/kg	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	mg/kg	<0.5	<0.5	<0.5	<0.5
trichloroethene	mg/kg	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	mg/kg	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate 4-Bromofluorobenzene	%	97	96	96	98
Surrogate Dibromofluoromethane	%	91	90	92	92
Surrogate Toluene-d_8	%	95	98	96	97
Surrogate aaa-Trifluorotoluene	%	88	101	95	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	13/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	94	97	95	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	13/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	94	91	86	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	13/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	93	93	92	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	13/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	86	96	93	93	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	13/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	93	91	99	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	13/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	94	99	91	98

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	100	98	95	96	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	96	97	93	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	93	94	92	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	99	94	93	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		18086-51	18086-52	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-TB01	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	97	89	90	92

TRH Soil C10-C40 NEPM						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	81	80	80	82

TRH Soil C10-C40 NEPM						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	83	82	80	81

TRH Soil C10-C40 NEPM						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	82	82	81	83

TRH Soil C10-C40 NEPM						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	82	83	80	82

TRH Soil C10-C40 NEPM						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	83	83	84	83

TRH Soil C10-C40 NEPM						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	83	85	85	84

TRH Soil C10-C40 NEPM						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	78	84	85	85	86

TRH Soil C10-C40 NEPM						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	17/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	18/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	85	85	85	85

TRH Soil C10-C40 NEPM						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	80	80	79	80

TRH Soil C10-C40 NEPM						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	79	79	79	80

TRH Soil C10-C40 NEPM					
Our Reference		18086-51	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	78	81	80

PAHs in Soil						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	84	78	88	90	106

PAHs in Soil						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	86	98	100	94	86

PAHs in Soil						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	90	94	100	92	92

PAHs in Soil						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	88	92	88	96	90

PAHs in Soil						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	96	94	100	86	100

PAHs in Soil						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	92	92	94	104	100

PAHs in Soil						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	90	92	98	94	86

PAHs in Soil						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	17/09/2019	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	15/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	88	92	96	94	110

PAHs in Soil						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	88	98	92	92	106

PAHs in Soil						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	90	92	92	90	96

PAHs in Soil					
Our Reference		18086-51	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	94	90	106	94

Speciated Phenols in Soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<2	<2	<2	<2	<2
4-Nitrophenol	mg/kg	<4	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	mg/kg	<1	<1	<1	<1	<1
4-Chloro-3-Methylphenol	mg/kg	<2	<2	<2	<2	<2
Total +ve Cresols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Total +ve Phenols	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate Phenol-d_6	%	76	78	80	82	88

Speciated Phenols in Soil					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Phenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2-Chlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2-Methylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2
3/4-Methylphenol	mg/kg	<0.4	<0.4	<0.4	<0.4
2-Nitrophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2,4-Dimethylphenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2,4-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2,6-Dichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2,4,5-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2,4,6-Trichlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
2,4-Dinitrophenol	mg/kg	<2	<2	<2	<2
4-Nitrophenol	mg/kg	<4	<4	<4	<4
2,3,4,6-Tetrachlorophenol	mg/kg	<0.2	<0.2	<0.2	<0.2
Pentachlorophenol	mg/kg	<1	<1	<1	<1
4-Chloro-3-Methylphenol	mg/kg	<2	<2	<2	<2
Total +ve Cresols	mg/kg	<0.2	<0.2	<0.2	<0.2
Total +ve Phenols	mg/kg	<0.2	<0.2	<0.2	<0.2
Surrogate Phenol-d_6	%	82	80	82	80

OCP in Soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	84	86	90	88	96

OCP in Soil					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	92	90	88	88

OP in Soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Azinphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorovos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	84	86	90	88	96

OP in Soil					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Azinphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dichlorovos	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	92	90	88	88

PCBs in Soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	84	86	90	88	96

PCBs in Soil					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	92	90	88	88

Acid Herbicides in soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-D	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluroxypyr	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,5-T	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate: 2,4-DCPA	%	84	74	84	86	80

Acid Herbicides in soil					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019
2,4-D	mg/kg	<0.5	<0.5	<0.5	<0.5
Fluroxypyr	mg/kg	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	<0.5	<0.5	<0.5	<0.5
2,4,5-T	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate: 2,4-DCPA	%	86	84	88	78

SVOC in soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019	15/09/2019
2,4-Dinitrotoluene	mg/kg	<1	<1	<1	<1	<1
Nitrobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate p-Terphenyl-d_{14}	%	98	102	106	108	114

SVOC in soil					
Our Reference		18086-26	18086-31	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	15/09/2019	15/09/2019	15/09/2019	15/09/2019
2,4-Dinitrotoluene	mg/kg	<1	<1	<1	<1
Nitrobenzene	mg/kg	<1	<1	<1	<1
Surrogate p-Terphenyl-d_{14}	%	110	102	108	108

NSW DECC Metals						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	7	8	<4	11	5
Beryllium	mg/kg	1	1	<1	1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	31	26	16	25	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	20	16	9	19	14
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	39,000	[NA]	[NA]	[NA]	[NA]

NSW DECC Metals						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	<4	<4	<4	<4	4
Beryllium	mg/kg	<1	<1	<1	<1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	6	7	18	10	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	7	8	12	9	10
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	8	<4	5	<4	<4
Beryllium	mg/kg	2	1	2	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	16	13	13	8	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	36	10	49	11	12
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	<4	4	5	<4	<4
Beryllium	mg/kg	<1	<1	<1	<1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	10	14	10	14	17
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	10	9	15	13	10
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	<4	7	8	<4	6
Beryllium	mg/kg	<1	<1	1	<1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	11	17	17	17	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	8	9	17	7	24
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	<4	6	<4	<4	7
Beryllium	mg/kg	1	<1	<1	<1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	12	17	8	7	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	10	9	7	8	12
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	14/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	16/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	<4	8	<4	<4	4
Beryllium	mg/kg	<1	2	<1	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	9	18	10	7	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	8	34	11	14	9
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	[NA]	23,000	[NA]	[NA]	[NA]

NSW DECC Metals						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Date analysed	-	16/09/2019	18/09/2019	18/09/2019	18/09/2019	18/09/2019
Arsenic	mg/kg	5	21	<4	8	<4
Beryllium	mg/kg	1	1	<1	1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	14	27	13	22	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	16	15	11	30	11
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1
Iron	mg/kg	26,000	[NA]	[NA]	[NA]	[NA]

NSW DECC Metals						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Arsenic	mg/kg	<4	<4	<4	9	<4
Beryllium	mg/kg	1	<1	1	<1	2
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	14	5	9	12	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	18	7	9	12	19
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Arsenic	mg/kg	<4	<4	<4	<4	<4
Beryllium	mg/kg	1	<1	<1	1	1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	12	13	19	16	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1	<1
Nickel	mg/kg	12	11	9	13	12
Selenium	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1	<1

NSW DECC Metals					
Our Reference	UNITS	18086-51	18086-53	18086-54	18086-55
Your Reference		FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date digested	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Arsenic	mg/kg	18	27	19	5
Beryllium	mg/kg	1	1	1	<1
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Lead	mg/kg	23	19	27	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	<1	<1	<1	<1
Nickel	mg/kg	16	13	18	8
Selenium	mg/kg	<2	<2	<2	<2
Silver	mg/kg	<1	<1	<1	<1

Inorganics in soil						
Our Reference		18086-1	18086-6	18086-11	18086-16	18086-21
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB12-1.5	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-2.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	16/09/2019	16/09/2019	16/09/2019	16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	<1	<1	<1	<1	<1
Total Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Weak Acid Dissociable Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
pH 1:5 soil:water	pH Units	9.2	9.8	9.7	8.9	9.4
pH 1:5 soil:$CaCl_2$	pH Units	8.0	[NA]	[NA]	[NA]	[NA]
Total Organic Carbon (Walkley Black)	mg/kg	<1000	[NA]	[NA]	[NA]	[NA]
Clay in soils <2um	% (w/w)	42	[NA]	[NA]	[NA]	[NA]

Inorganics in soil						
Our Reference		18086-26	18086-31	18086-32	18086-36	18086-41
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-3.0	CAG-CAT01-SB17-1.5
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	16/09/2019	16/09/2019	[NA]	16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	<1	<1	[NA]	<1	<1
Total Cyanide	mg/kg	<0.5	<0.5	[NA]	<0.5	<0.5
Weak Acid Dissociable Cyanide	mg/kg	<0.5	<0.5	[NA]	<0.5	<0.5
pH 1:5 soil:water	pH Units	9.5	8.9	[NA]	9.3	8.7
pH 1:5 soil:$CaCl_2$	pH Units	[NA]	[NA]	8.3	8.2	[NA]
Total Organic Carbon (Walkley Black)	mg/kg	[NA]	[NA]	1,900	<1000	[NA]
Clay in soils <2um	% (w/w)	[NA]	[NA]	38	49	[NA]

Cation exchange capacity				
Our Reference		18086-1	18086-32	18086-36
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-3.0
Date Sampled		10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil
Date extracted	-	17/09/2019	17/09/2019	17/09/2019
Date analysed	-	17/09/2019	17/09/2019	17/09/2019
Exchangeable Ca	meq/100g	18	8.7	6.9
Exchangeable K	meq/100g	0.5	0.2	0.5
Exchangeable Mg	meq/100g	11	3.1	12
Exchangeable Na	meq/100g	0.7	1.2	4.9
Cation Exchange Capacity	meq/100g	30	13	25

Moisture						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	18	17	7.0	11	24

Moisture						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	19	20	18	17	7.4

Moisture						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	11	15	23	21	18

Moisture						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	19	5.7	13	10	18

Moisture						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	16	16	17	5.8	11

Moisture						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	15	14	19	20	16

Moisture						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	14/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	3.9	8.4	17	23	18

Moisture						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	12/09/2019	12/09/2019	12/09/2019	12/09/2019
Date analysed	-	14/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Moisture	%	19	14	8.5	14	24

Moisture						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Moisture	%	20	16	22	16	17

Moisture						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Moisture	%	19	13	9.0	12	20

Moisture						
Our Reference		18086-51	18086-52	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-TB01	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	14/09/2019	14/09/2019	14/09/2019	14/09/2019	14/09/2019
Moisture	%	17	<0.1	17	17	12

Asbestos ID - soils					
Our Reference		18086-10	18086-25	18086-38	18086-47
Your Reference	UNITS	CAG-CAT01-SB13-0.2	CAG-CAT01-SB15-0.5	CAG-CAT01-SB17-0.2	FD03
Date Sampled		10/09/2019	11/09/2019	11/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Sample mass tested	g	Approx. 45g	Approx. 35g	Approx. 45g	Approx. 40g
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

PFAS in Soil Extended						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	0.023	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	102	103	101	99	100
Surrogate $^{13}C_2$ PFOA	%	101	99	99	99	98
Extracted ISTD $^{13}C_3$ *PFBS*	%	79	83	84	84	82
Extracted ISTD $^{18}O_2$ *PFHxS*	%	89	86	88	86	85
Extracted ISTD $^{13}C_4$ *PFOS*	%	84	83	86	88	87

PFAS in Soil Extended						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_4$ *PFBA*	%	80	79	85	80	80
Extracted ISTD $^{13}C_3$ *PFPeA*	%	82	83	89	84	81
Extracted ISTD $^{13}C_2$ *PFHxA*	%	85	87	89	87	86
Extracted ISTD $^{13}C_4$ *PFHpA*	%	82	84	88	87	83
Extracted ISTD $^{13}C_4$ *PFOA*	%	88	92	95	91	90
Extracted ISTD $^{13}C_5$ *PFNA*	%	89	89	91	92	89
Extracted ISTD $^{13}C_2$ *PFDA*	%	95	93	99	99	90
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	85	84	98	99	88
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	74	70	100	86	82
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	62	65	91	70	78
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	86	90	97	89	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	92	98	115	102	90
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	92	101	140	111	90
Extracted ISTD $^{13}C_8$ *FOSA*	%	89	95	101	93	95
Extracted ISTD d_3 *N MeFOSA*	%	77	74	86	81	76
Extracted ISTD d_5 *NEtFOSA*	%	72	68	82	76	73
Extracted ISTD d_7 *N MeFOSE*	%	90	90	100	95	95
Extracted ISTD d_9 *N EtFOSE*	%	89	85	100	93	92
Extracted ISTD d_3 *N MeFOSAA*	%	82	83	109	101	84
Extracted ISTD d_5 *N EtFOSAA*	%	79	77	92	102	82
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	0.023	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	0.023	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	0.023	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	101	102	98	102	104
Surrogate $^{13}C_2$ PFOA	%	99	94	96	97	98
Extracted ISTD $^{13}C_3$ *PFBS*	%	83	85	83	83	86
Extracted ISTD $^{18}O_2$ *PFHxS*	%	90	83	86	86	90
Extracted ISTD $^{13}C_4$ *PFOS*	%	87	85	85	85	87
Extracted ISTD $^{13}C_4$ *PFBA*	%	81	79	77	79	84

PFAS in Soil Extended						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	84	83	82	84	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89	87	87	86	90
Extracted ISTD $^{13}C_4$ *PFHpA*	%	83	86	83	84	88
Extracted ISTD $^{13}C_4$ *PFOA*	%	91	90	90	93	95
Extracted ISTD $^{13}C_5$ *PFNA*	%	90	88	87	90	90
Extracted ISTD $^{13}C_2$ *PFDA*	%	94	87	89	92	100
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	87	80	84	90	94
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	78	73	72	84	100
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	77	70	62	96	97
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	92	89	89	91	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	93	92	95	94	112
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	98	92	94	107	134
Extracted ISTD $^{13}C_8$ *FOSA*	%	97	94	95	96	105
Extracted ISTD d_3 *N MeFOSA*	%	78	77	77	85	85
Extracted ISTD d_5 *NEtFOSA*	%	73	75	74	79	80
Extracted ISTD d_7 *N MeFOSE*	%	96	94	94	101	103
Extracted ISTD d_9 *N EtFOSE*	%	93	92	94	104	108
Extracted ISTD d_3 *N MeFOSAA*	%	91	83	82	98	105
Extracted ISTD d_5 *N EtFOSAA*	%	85	76	80	85	86
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	0.019

PFAS in Soil Extended						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.009	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	0.012	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	93	106	102	95	106
Surrogate $^{13}C_2$ PFOA	%	105	97	98	98	99
Extracted ISTD $^{13}C_3$ *PFBS*	%	92	86	84	80	81
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	89	89	89	88
Extracted ISTD $^{13}C_4$ *PFOS*	%	91	87	87	87	84
Extracted ISTD $^{13}C_4$ *PFBA*	%	81	81	80	79	80

PFAS in Soil Extended						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	93	85	83	82	84
Extracted ISTD $^{13}C_2$ *PFHxA*	%	101	90	88	88	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	95	85	86	83	83
Extracted ISTD $^{13}C_4$ *PFOA*	%	98	93	91	91	91
Extracted ISTD $^{13}C_5$ *PFNA*	%	103	92	91	90	93
Extracted ISTD $^{13}C_2$ *PFDA*	%	111	93	92	93	96
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	123	94	93	87	90
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	117	91	91	75	83
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	48	97	101	76	92
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	103	88	90	84	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	109	97	90	94	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99	107	96	94	95
Extracted ISTD $^{13}C_8$ *FOSA*	%	96	98	100	96	96
Extracted ISTD d_3 *N MeFOSA*	%	76	80	87	80	80
Extracted ISTD d_5 *NEtFOSA*	%	72	78	85	75	79
Extracted ISTD d_7 *N MeFOSE*	%	95	101	109	96	102
Extracted ISTD d_9 *N EtFOSE*	%	94	103	111	97	103
Extracted ISTD d_3 *N MeFOSAA*	%	122	87	79	85	81
Extracted ISTD d_5 *N EtFOSAA*	%	128	83	78	77	78
Total Positive PFHxS & PFOS	mg/kg	0.021	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	0.012	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	0.021	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	0.006	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	0.021	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	101	99	102	98	100
Surrogate $^{13}C_2$ PFOA	%	100	98	96	100	98
Extracted ISTD $^{13}C_3$ *PFBS*	%	86	85	86	87	85
Extracted ISTD $^{18}O_2$ *PFHxS*	%	90	96	90	93	89
Extracted ISTD $^{13}C_4$ *PFOS*	%	91	92	90	92	90
Extracted ISTD $^{13}C_4$ *PFBA*	%	81	87	82	84	82

PFAS in Soil Extended						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	86	90	85	86	85
Extracted ISTD $^{13}C_2$ *PFHxA*	%	90	94	90	91	91
Extracted ISTD $^{13}C_4$ *PFHpA*	%	87	87	86	86	87
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	101	94	94	94
Extracted ISTD $^{13}C_5$ *PFNA*	%	93	95	95	94	92
Extracted ISTD $^{13}C_2$ *PFDA*	%	92	105	94	96	94
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	94	93	96	96	89
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	83	95	88	92	87
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	70	77	73	103	99
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	90	94	92	94	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	94	111	94	97	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	97	131	106	97	92
Extracted ISTD $^{13}C_8$ *FOSA*	%	94	96	96	97	99
Extracted ISTD d_3 *N MeFOSA*	%	76	79	79	88	85
Extracted ISTD d_5 *NEtFOSA*	%	70	73	73	82	82
Extracted ISTD d_7 *N MeFOSE*	%	100	99	99	111	107
Extracted ISTD d_9 *N EtFOSE*	%	99	99	100	114	112
Extracted ISTD d_3 *N MeFOSAA*	%	87	110	91	93	89
Extracted ISTD d_5 *N EtFOSAA*	%	80	77	91	84	83
Total Positive PFHxS & PFOS	mg/kg	<0.005	0.027	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	0.021	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	0.027	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	0.026	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	104	102	98	98	106
Surrogate $^{13}C_2$ PFOA	%	97	98	99	96	98
Extracted ISTD $^{13}C_3$ *PFBS*	%	90	92	89	83	85
Extracted ISTD $^{18}O_2$ *PFHxS*	%	93	98	94	89	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	94	96	96	85	80
Extracted ISTD $^{13}C_4$ *PFBA*	%	88	88	87	77	77

PFAS in Soil Extended						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	91	90	91	89	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%	96	96	97	90	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	91	91	90	84	86
Extracted ISTD $^{13}C_4$ *PFOA*	%	100	102	101	88	88
Extracted ISTD $^{13}C_5$ *PFNA*	%	97	99	99	90	96
Extracted ISTD $^{13}C_2$ *PFDA*	%	99	100	99	91	90
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	89	92	93	100	104
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	79	81	77	112	83
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	39	45	56	100	63
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	96	97	96	103	93
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	97	97	100	110	98
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	98	94	99	105	85
Extracted ISTD $^{13}C_8$ *FOSA*	%	106	101	102	88	76
Extracted ISTD d_3 *N MeFOSA*	%	87	84	83	75	61
Extracted ISTD d_5 *NEtFOSA*	%	79	79	76	71	56
Extracted ISTD d_7 *N MeFOSE*	%	108	106	106	80	78
Extracted ISTD d_9 *N EtFOSE*	%	108	108	101	89	75
Extracted ISTD d_3 *N MeFOSAA*	%	92	94	94	105	92
Extracted ISTD d_5 *N EtFOSAA*	%	87	89	89	84	92
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	0.026	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	0.026	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	0.026	<0.005

PFAS in Soil Extended						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	105	97	97	99	100
Surrogate $^{13}C_2$ PFOA	%	105	100	109	107	100
Extracted ISTD $^{13}C_3$ *PFBS*	%	85	86	83	86	82
Extracted ISTD $^{18}O_2$ *PFHxS*	%	92	87	91	90	88
Extracted ISTD $^{13}C_4$ *PFOS*	%	85	82	81	84	84
Extracted ISTD $^{13}C_4$ *PFBA*	%	73	74	72	71	72

PFAS in Soil Extended						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	84	84	84	83	85
Extracted ISTD $^{13}C_2$ *PFHxA*	%	90	87	90	82	90
Extracted ISTD $^{13}C_4$ *PFHpA*	%	86	89	86	84	87
Extracted ISTD $^{13}C_4$ *PFOA*	%	89	85	79	79	86
Extracted ISTD $^{13}C_5$ *PFNA*	%	95	91	96	92	97
Extracted ISTD $^{13}C_2$ *PFDA*	%	90	93	94	86	87
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	106	101	112	102	107
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	86	83	92	80	78
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	50	37	47	47	46
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	92	89	96	92	93
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	101	99	99	95	98
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	82	78	94	86	80
Extracted ISTD $^{13}C_8$ *FOSA*	%	83	88	86	83	85
Extracted ISTD d_3 *N MeFOSA*	%	60	66	70	63	63
Extracted ISTD d_5 *NEtFOSA*	%	54	59	62	60	57
Extracted ISTD d_7 *N MeFOSE*	%	79	78	83	75	73
Extracted ISTD d_9 *N EtFOSE*	%	75	75	70	69	70
Extracted ISTD d_3 *N MeFOSAA*	%	93	94	98	90	88
Extracted ISTD d_5 *N EtFOSAA*	%	95	101	93	89	86
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	0.018	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	103	92	103	103	88
Surrogate $^{13}C_2$ PFOA	%	106	103	108	101	106
Extracted ISTD $^{13}C_3$ *PFBS*	%	85	84	88	83	80
Extracted ISTD $^{18}O_2$ *PFHxS*	%	87	92	89	87	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	83	86	83	75	87
Extracted ISTD $^{13}C_4$ *PFBA*	%	78	78	80	77	74

PFAS in Soil Extended						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	91	86	89	86	83
Extracted ISTD $^{13}C_2$ *PFHxA*	%	90	91	90	87	85
Extracted ISTD $^{13}C_4$ *PFHpA*	%	88	89	87	86	85
Extracted ISTD $^{13}C_4$ *PFOA*	%	90	87	84	88	84
Extracted ISTD $^{13}C_5$ *PFNA*	%	101	97	98	97	91
Extracted ISTD $^{13}C_2$ *PFDA*	%	105	86	89	82	85
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	99	115	116	101	117
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	109	86	104	86	90
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	69	50	81	43	37
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	114	94	98	90	92
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	146	102	99	96	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	111	93	91	93	94
Extracted ISTD $^{13}C_8$ *FOSA*	%	86	83	85	86	84
Extracted ISTD d_3 *N MeFOSA*	%	72	64	70	58	59
Extracted ISTD d_5 *NEtFOSA*	%	68	60	62	53	54
Extracted ISTD d_7 *N MeFOSE*	%	92	74	91	81	83
Extracted ISTD d_9 *N EtFOSE*	%	87	76	85	74	74
Extracted ISTD d_3 *N MeFOSAA*	%	110	102	103	95	93
Extracted ISTD d_5 *N EtFOSAA*	%	103	99	107	106	101
Total Positive PFHxS & PFOS	mg/kg	0.018	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	0.018	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	0.018	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	0.009	0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	0.023	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	105	97	101	97	96
Surrogate $^{13}C_2$ PFOA	%	100	101	104	103	97
Extracted ISTD $^{13}C_3$ *PFBS*	%	86	84	83	83	81
Extracted ISTD $^{18}O_2$ *PFHxS*	%	95	89	89	84	87
Extracted ISTD $^{13}C_4$ *PFOS*	%	79	81	87	81	84
Extracted ISTD $^{13}C_4$ *PFBA*	%	76	71	77	73	72

PFAS in Soil Extended						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	87	84	91	85	83
Extracted ISTD $^{13}C_2$ *PFHxA*	%	86	87	86	87	87
Extracted ISTD $^{13}C_4$ *PFHpA*	%	87	88	87	86	84
Extracted ISTD $^{13}C_4$ *PFOA*	%	87	85	86	83	86
Extracted ISTD $^{13}C_5$ *PFNA*	%	100	96	90	92	90
Extracted ISTD $^{13}C_2$ *PFDA*	%	91	88	91	90	91
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	101	107	113	110	113
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	80	82	101	85	91
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	35	37	57	43	59
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	94	91	88	98	90
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	89	95	111	89	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	93	85	119	93	91
Extracted ISTD $^{13}C_8$ *FOSA*	%	81	83	88	83	80
Extracted ISTD d_3 *N MeFOSA*	%	57	62	65	62	62
Extracted ISTD d_5 *NEtFOSA*	%	50	52	66	53	57
Extracted ISTD d_7 *N MeFOSE*	%	79	81	82	82	74
Extracted ISTD d_9 *N EtFOSE*	%	62	75	87	74	71
Extracted ISTD d_3 *N MeFOSAA*	%	91	93	110	90	99
Extracted ISTD d_5 *N EtFOSAA*	%	97	95	106	100	97
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	0.032	0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	0.023	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	0.032	0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	107	95	99	98	107
Surrogate $^{13}C_2$ PFOA	%	107	108	105	101	96
Extracted ISTD $^{13}C_3$ *PFBS*	%	78	81	83	83	83
Extracted ISTD $^{18}O_2$ *PFHxS*	%	83	85	88	89	86
Extracted ISTD $^{13}C_4$ *PFOS*	%	74	82	78	81	79
Extracted ISTD $^{13}C_4$ *PFBA*	%	70	69	69	72	72

PFAS in Soil Extended						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	82	84	83	85	84
Extracted ISTD $^{13}C_2$ *PFHxA*	%	85	86	87	91	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	84	81	84	86	85
Extracted ISTD $^{13}C_4$ *PFOA*	%	80	85	83	89	89
Extracted ISTD $^{13}C_5$ *PFNA*	%	94	92	90	94	93
Extracted ISTD $^{13}C_2$ *PFDA*	%	89	87	93	87	94
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	97	106	105	113	114
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	81	101	95	95	92
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	21	43	40	40	41
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	90	95	95	93	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	94	101	90	95	96
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	98	104	86	100	102
Extracted ISTD $^{13}C_8$ *FOSA*	%	82	84	86	81	85
Extracted ISTD d_3 *N MeFOSA*	%	48	64	62	62	67
Extracted ISTD d_5 *NEtFOSA*	%	40	53	54	53	57
Extracted ISTD d_7 *N MeFOSE*	%	72	75	85	78	83
Extracted ISTD d_9 *N EtFOSE*	%	66	79	75	64	74
Extracted ISTD d_3 *N MeFOSAA*	%	88	94	86	88	97
Extracted ISTD d_5 *N EtFOSAA*	%	81	95	94	96	99
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005

PFAS in Soil Extended						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	0.020	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	92	96	102	92	101
Surrogate $^{13}C_2$ PFOA	%	103	97	103	99	98
Extracted ISTD $^{13}C_3$ *PFBS*	%	83	84	84	82	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%	91	88	95	87	88
Extracted ISTD $^{13}C_4$ *PFOS*	%	86	83	81	83	80
Extracted ISTD $^{13}C_4$ *PFBA*	%	75	72	76	71	72

PFAS in Soil Extended						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	86	85	90	84	86
Extracted ISTD $^{13}C_2$ *PFHxA*	%	90	89	92	85	95
Extracted ISTD $^{13}C_4$ *PFHpA*	%	87	85	89	87	88
Extracted ISTD $^{13}C_4$ *PFOA*	%	87	92	90	84	87
Extracted ISTD $^{13}C_5$ *PFNA*	%	99	94	105	95	101
Extracted ISTD $^{13}C_2$ *PFDA*	%	101	102	100	95	97
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	108	117	124	109	106
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	95	105	121	94	86
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	40	43	116	46	43
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	93	90	104	90	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	93	98	124	97	98
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	98	98	138	110	96
Extracted ISTD $^{13}C_8$ *FOSA*	%	89	85	92	85	86
Extracted ISTD d_3 *N MeFOSA*	%	67	62	69	61	63
Extracted ISTD d_5 *NEtFOSA*	%	59	58	66	52	54
Extracted ISTD d_7 *N MeFOSE*	%	77	87	85	77	78
Extracted ISTD d_9 *N EtFOSE*	%	77	73	98	72	69
Extracted ISTD d_3 *N MeFOSAA*	%	97	103	114	104	97
Extracted ISTD d_5 *N EtFOSAA*	%	98	97	116	93	107
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	0.020	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	0.020	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	0.020	<0.005	<0.005

PFAS in Soil Extended					
Our Reference		18086-51	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Perfluorobutanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluoropentanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid PFHxS	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorooctanesulfonic acid PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorobutanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluoroheptanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorononanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluoroundecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
4:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005
6:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005
8:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005
10:2 FTS	mg/kg	<0.005	<0.005	<0.005	<0.005
Perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005
N-Methyl perfluorooctane sulfonamide	mg/kg	<0.005	<0.005	<0.005	<0.005
N-Ethyl perfluorooctanesulfon -amide	mg/kg	<0.005	<0.005	<0.005	<0.005
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	<0.005	<0.005	<0.005	<0.005
MePerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	<0.005	<0.005	<0.005	<0.005
Surrogate $^{13}C_8$ PFOS	%	101	100	102	101
Surrogate $^{13}C_2$ PFOA	%	105	105	101	100
Extracted ISTD $^{13}C_3$ *PFBS*	%	80	82	81	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%	82	88	83	88
Extracted ISTD $^{13}C_4$ *PFOS*	%	78	82	79	83
Extracted ISTD $^{13}C_4$ *PFBA*	%	71	71	71	73

PFAS in Soil Extended					
Our Reference		18086-51	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFPeA*	%	84	84	85	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%	88	90	89	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	84	85	85	85
Extracted ISTD $^{13}C_4$ *PFOA*	%	84	82	81	87
Extracted ISTD $^{13}C_5$ *PFNA*	%	98	97	97	99
Extracted ISTD $^{13}C_2$ *PFDA*	%	93	99	96	101
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	106	111	105	119
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	86	86	86	93
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	40	37	29	44
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	85	90	88	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	85	97	93	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	102	87	94	99
Extracted ISTD $^{13}C_8$ *FOSA*	%	83	83	84	86
Extracted ISTD d_3 *N MeFOSA*	%	56	61	53	64
Extracted ISTD d_5 *NEtFOSA*	%	53	52	48	55
Extracted ISTD d_7 *N MeFOSE*	%	73	82	76	83
Extracted ISTD d_9 *N EtFOSE*	%	72	77	75	77
Extracted ISTD d_3 *N MeFOSAA*	%	92	101	97	97
Extracted ISTD d_5 *N EtFOSAA*	%	104	104	98	98
Total Positive PFHxS & PFOS	mg/kg	<0.005	<0.005	<0.005	<0.005
Total Positive PFOS & PFOA	mg/kg	<0.005	<0.005	<0.005	<0.005
Total Positive PFAS	mg/kg	<0.005	<0.005	<0.005	<0.005

PFAS in TCLP Extended						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	8.6	9.1	9.4	9.5	9.4
pH of soil ASLP (after HCl)	pH units	1.9	2.0	2.0	1.9	2.0
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.9	5.3	5.0	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	0.05	0.09	0.19	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	0.20	0.08	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	94	96	106	100	100

PFAS in TCLP Extended						
Our Reference		18086-1	18086-2	18086-3	18086-4	18086-5
Your Reference	UNITS	CAG-CAT01-SB11-3.0	CAG-CAT01-SB11-4.0	CAG-CAT01-SB12-0.2	CAG-CAT01-SB12-0.5	CAG-CAT01-SB12-1.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Surrogate $^{13}C_2$ PFOA	%	105	98	103	96	104
Extracted ISTD $^{13}C_3$ *PFBS*	%	91	90	92	88	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	95	100	92	94	104
Extracted ISTD $^{13}C_4$ *PFOS*	%	91	94	86	87	93
Extracted ISTD $^{13}C_4$ *PFBA*	%	81	74	78	81	82
Extracted ISTD $^{13}C_3$ *PFPeA*	%	92	90	94	93	99
Extracted ISTD $^{13}C_2$ *PFHxA*	%	93	97	97	94	104
Extracted ISTD $^{13}C_4$ *PFHpA*	%	92	93	94	94	101
Extracted ISTD $^{13}C_4$ *PFOA*	%	94	94	93	98	96
Extracted ISTD $^{13}C_5$ *PFNA*	%	104	110	107	101	109
Extracted ISTD $^{13}C_2$ *PFDA*	%	111	104	105	104	109
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	121	123	109	106	132
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	108	105	96	104	114
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	56	50	42	39	61
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	93	95	101	97	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	105	112	121	115	120
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	97	96	101	95	107
Extracted ISTD $^{13}C_8$ *FOSA*	%	92	97	91	93	97
Extracted ISTD d_3 *N MeFOSA*	%	114	106	94	113	113
Extracted ISTD d_5 *NEtFOSA*	%	114	105	109	114	118
Extracted ISTD d_7 *N MeFOSE*	%	102	92	101	88	100
Extracted ISTD d_9 *N EtFOSE*	%	88	100	99	100	105
Extracted ISTD d_3 *N MeFOSAA*	%	119	123	122	115	134
Extracted ISTD d_5 *N EtFOSAA*	%	121	133	125	121	128
Total Positive PFHxS & PFOS	µg/L	<0.05	0.05	0.29	0.27	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	0.20	0.08	<0.05
Total Positive PFAS	µg/L	<0.05	0.05	0.29	0.27	<0.05

PFAS in TCLP Extended						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.8	9.6	9.5	8.5	9.4
pH of soil ASLP (after HCl)	pH units	4.7	4.7	1.9	1.8	2.1
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	6.2	6.3	5.3	4.9	5.6
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	0.13
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	0.19
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	101	96	106	104	104
Surrogate $^{13}C_2$ PFOA	%	99	111	98	98	103

PFAS in TCLP Extended						
Our Reference		18086-6	18086-7	18086-8	18086-9	18086-10
Your Reference	UNITS	CAG-CAT01-SB12-1.5	CAG-CAT01-SB12-2.0	CAG-CAT01-SB12-3.0	CAG-CAT01-SB12-4.0	CAG-CAT01-SB13-0.2
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	94	93	92	93	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	102	102	101	97
Extracted ISTD $^{13}C_4$ *PFOS*	%	90	93	89	89	89
Extracted ISTD $^{13}C_4$ *PFBA*	%	74	76	77	84	75
Extracted ISTD $^{13}C_3$ *PFPeA*	%	95	89	90	95	91
Extracted ISTD $^{13}C_2$ *PFHxA*	%	100	95	97	96	95
Extracted ISTD $^{13}C_4$ *PFHpA*	%	96	94	95	93	92
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	92	98	93	94
Extracted ISTD $^{13}C_5$ *PFNA*	%	107	105	97	105	105
Extracted ISTD $^{13}C_2$ *PFDA*	%	105	104	98	104	97
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	121	120	123	128	122
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	98	102	105	94	91
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	50	52	45	38	39
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	95	97	97	103	96
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	111	110	110	112	118
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	96	99	94	101	107
Extracted ISTD $^{13}C_8$ *FOSA*	%	96	95	95	97	93
Extracted ISTD d_3 *N MeFOSA*	%	116	119	111	102	98
Extracted ISTD d_5 *NEtFOSA*	%	116	130	105	105	97
Extracted ISTD d_7 *N MeFOSE*	%	96	93	99	105	88
Extracted ISTD d_9 *N EtFOSE*	%	98	94	91	84	88
Extracted ISTD d_3 *N MeFOSAA*	%	116	118	115	119	120
Extracted ISTD d_5 *N EtFOSAA*	%	124	120	126	117	126
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	0.32
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	0.19
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	0.32

PFAS in TCLP Extended						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.5	9.1	8.6	9.4	9.5
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.9	4.9	2.3
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.3	6.2	6.2
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	0.45	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	0.12	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	102	96	100	98	101
Surrogate $^{13}C_2$ PFOA	%	103	105	98	101	100

PFAS in TCLP Extended						
Our Reference		18086-11	18086-12	18086-13	18086-14	18086-15
Your Reference	UNITS	CAG-CAT01-SB13-0.5	CAG-CAT01-SB13-1.0	CAG-CAT01-SB13-1.5	CAG-CAT01-SB13-2.0	CAG-CAT01-SB13-3.0
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	92	93	97	96	95
Extracted ISTD $^{18}O_2$ *PFHxS*	%	92	97	104	105	100
Extracted ISTD $^{13}C_4$ *PFOS*	%	91	92	95	95	95
Extracted ISTD $^{13}C_4$ *PFBA*	%	78	78	80	74	79
Extracted ISTD $^{13}C_3$ *PFPeA*	%	91	94	96	93	94
Extracted ISTD $^{13}C_2$ *PFHxA*	%	98	98	99	98	99
Extracted ISTD $^{13}C_4$ *PFHpA*	%	93	95	100	98	99
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	91	100	99	95
Extracted ISTD $^{13}C_5$ *PFNA*	%	105	105	109	106	107
Extracted ISTD $^{13}C_2$ *PFDA*	%	109	104	109	107	106
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	118	110	114	123	118
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	73	72	90	97	91
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	28	20	38	50	34
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	99	103	98	100	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	120	117	119	123	120
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	101	106	106	99	106
Extracted ISTD $^{13}C_8$ *FOSA*	%	84	87	92	96	98
Extracted ISTD d_3 *N MeFOSA*	%	70	71	95	103	95
Extracted ISTD d_5 *NEtFOSA*	%	65	59	91	103	90
Extracted ISTD d_7 *N MeFOSE*	%	78	79	87	93	93
Extracted ISTD d_9 *N EtFOSE*	%	69	70	79	86	85
Extracted ISTD d_3 *N MeFOSAA*	%	114	115	122	116	125
Extracted ISTD d_5 *N EtFOSAA*	%	98	123	124	125	129
Total Positive PFHxS & PFOS	µg/L	0.57	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	0.12	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	0.62	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	9.5	9.2	9.6	8.9
pH of soil ASLP (after HCl)	pH units	1.8	1.9	1.8	1.9	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	5.0	5.1	5.0	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	0.22	0.08	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	0.11	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	99	88	101	97	102
Surrogate $^{13}C_2$ PFOA	%	110	105	106	100	97

PFAS in TCLP Extended						
Our Reference		18086-16	18086-17	18086-18	18086-19	18086-20
Your Reference	UNITS	CAG-CAT01-SB13-4.0	CAG-CAT01-SB14-0.2	CAG-CAT01-SB14-0.5	CAG-CAT01-SB14-1.0	CAG-CAT01-SB14-1.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	10/09/2019	10/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	96	95	95	97	92
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	103	98	107	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	93	97	92	98	88
Extracted ISTD $^{13}C_4$ *PFBA*	%	83	80	82	85	83
Extracted ISTD $^{13}C_3$ *PFPeA*	%	99	94	95	101	93
Extracted ISTD $^{13}C_2$ *PFHxA*	%	102	100	100	99	97
Extracted ISTD $^{13}C_4$ *PFHpA*	%	100	96	98	98	96
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	95	91	99	101
Extracted ISTD $^{13}C_5$ *PFNA*	%	116	110	108	109	105
Extracted ISTD $^{13}C_2$ *PFDA*	%	112	112	105	106	106
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	119	112	132	118	117
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	73	96	101	104	85
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	23	34	41	41	31
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	105	103	103	105	99
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	126	121	116	115	117
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	100	105	103	101	97
Extracted ISTD $^{13}C_8$ *FOSA*	%	89	96	93	97	96
Extracted ISTD d_3 *N MeFOSA*	%	67	90	92	92	98
Extracted ISTD d_5 *NEtFOSA*	%	59	88	90	93	97
Extracted ISTD d_7 *N MeFOSE*	%	62	95	91	103	98
Extracted ISTD d_9 *N EtFOSE*	%	62	93	97	93	90
Extracted ISTD d_3 *N MeFOSAA*	%	113	125	121	127	119
Extracted ISTD d_5 *N EtFOSAA*	%	122	130	121	129	126
Total Positive PFHxS & PFOS	µg/L	<0.05	0.33	0.08	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	0.11	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	0.33	0.08	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.6	9.3	9.0	9.2	9.0
pH of soil ASLP (after HCl)	pH units	4.5	1.8	1.8	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	6.2	5.1	4.9	5.3	5.0
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	0.07
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	0.11	0.21
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	0.12	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	0.09
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	93	104	103	91	102
Surrogate $^{13}C_2$ PFOA	%	104	105	101	99	105

PFAS in TCLP Extended						
Our Reference		18086-21	18086-22	18086-23	18086-24	18086-25
Your Reference	UNITS	CAG-CAT01-SB14-2.0	CAG-CAT01-SB14-3.0	CAG-CAT01-SB14-4.0	CAG-CAT01-SB15-0.2	CAG-CAT01-SB15-0.5
Date Sampled		10/09/2019	10/09/2019	10/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	95	99	95	91	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	108	109	106	105	110
Extracted ISTD $^{13}C_4$ *PFOS*	%	103	98	97	101	93
Extracted ISTD $^{13}C_4$ *PFBA*	%	71	79	85	84	88
Extracted ISTD $^{13}C_3$ *PFPeA*	%	86	90	91	101	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%	90	95	92	96	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%	93	94	93	92	94
Extracted ISTD $^{13}C_4$ *PFOA*	%	98	98	98	91	97
Extracted ISTD $^{13}C_5$ *PFNA*	%	92	91	92	100	91
Extracted ISTD $^{13}C_2$ *PFDA*	%	90	88	87	88	88
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	91	85	78	83	70
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	75	65	58	91	49
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	68	57	53	89	44
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	84	87	89	97	84
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	104	99	101	104	97
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94	85	83	95	74
Extracted ISTD $^{13}C_8$ *FOSA*	%	119	110	106	94	100
Extracted ISTD d_3 *N MeFOSA*	%	91	74	68	110	59
Extracted ISTD d_5 *NEtFOSA*	%	89	73	67	103	56
Extracted ISTD d_7 *N MeFOSE*	%	97	88	87	112	72
Extracted ISTD d_9 *N EtFOSE*	%	92	78	73	99	60
Extracted ISTD d_3 *N MeFOSAA*	%	76	73	79	87	69
Extracted ISTD d_5 *N EtFOSAA*	%	70	70	69	87	63
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	0.23	0.21
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	0.12	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	0.23	0.42

PFAS in TCLP Extended						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.4	9.6	9.7	9.3	9.0
pH of soil ASLP (after HCl)	pH units	1.9	1.8	2.1	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	5.4	6.2	5.0	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	103	95	106	98	96
Surrogate $^{13}C_2$ PFOA	%	104	105	104	102	102

PFAS in TCLP Extended						
Our Reference		18086-26	18086-27	18086-28	18086-29	18086-30
Your Reference	UNITS	CAG-CAT01-SB15-1.0	CAG-CAT01-SB15-1.5	CAG-CAT01-SB15-2.0	CAG-CAT01-SB15-3.0	CAG-CAT01-SB15-4.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	99	99	99	95	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	106	113	108	107	109
Extracted ISTD $^{13}C_4$ *PFOS*	%	98	104	96	101	102
Extracted ISTD $^{13}C_4$ *PFBA*	%	85	77	65	81	86
Extracted ISTD $^{13}C_3$ *PFPeA*	%	91	90	87	90	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%	93	97	92	95	93
Extracted ISTD $^{13}C_4$ *PFHpA*	%	95	95	96	96	96
Extracted ISTD $^{13}C_4$ *PFOA*	%	100	101	98	100	99
Extracted ISTD $^{13}C_5$ *PFNA*	%	93	93	91	95	94
Extracted ISTD $^{13}C_2$ *PFDA*	%	93	94	93	95	92
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	88	89	87	90	90
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	73	70	73	77	77
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	56	55	59	64	63
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	89	87	87	85	86
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	102	103	104	102	99
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	80	89	85	82	85
Extracted ISTD $^{13}C_8$ *FOSA*	%	111	115	120	114	115
Extracted ISTD d_3 *N MeFOSA*	%	82	80	85	81	83
Extracted ISTD d_5 *NEtFOSA*	%	78	78	82	80	81
Extracted ISTD d_7 *N MeFOSE*	%	99	98	96	100	98
Extracted ISTD d_9 *N EtFOSE*	%	91	89	91	91	90
Extracted ISTD d_3 *N MeFOSAA*	%	78	78	75	81	79
Extracted ISTD d_5 *N EtFOSAA*	%	75	72	68	73	74
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.2	9.0	9.8	10.0	9.9
pH of soil ASLP (after HCl)	pH units	1.8	1.7	1.8	4.8	4.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	4.9	5.3	6.2	6.2
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	0.09	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	0.09	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	100	102	97	101	96
Surrogate $^{13}C_2$ PFOA	%	103	99	103	103	104

PFAS in TCLP Extended						
Our Reference		18086-31	18086-32	18086-33	18086-34	18086-35
Your Reference	UNITS	CAG-CAT01-SB16-0.2	CAG-CAT01-SB16-0.5	CAG-CAT01-SB16-1.0	CAG-CAT01-SB16-1.5	CAG-CAT01-SB16-2.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	98	97	101	100	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%	107	105	110	111	114
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	96	100	99	105
Extracted ISTD $^{13}C_4$ *PFBA*	%	87	86	81	68	66
Extracted ISTD $^{13}C_3$ *PFPeA*	%	93	91	91	88	90
Extracted ISTD $^{13}C_2$ *PFHxA*	%	96	93	96	93	97
Extracted ISTD $^{13}C_4$ *PFHpA*	%	99	98	97	97	99
Extracted ISTD $^{13}C_4$ *PFOA*	%	100	99	100	99	100
Extracted ISTD $^{13}C_5$ *PFNA*	%	96	90	91	90	95
Extracted ISTD $^{13}C_2$ *PFDA*	%	94	89	89	90	93
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	91	86	85	84	91
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	79	73	70	65	77
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	68	60	57	41	57
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	87	83	87	88	89
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	103	95	97	103	101
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	92	88	85	87	89
Extracted ISTD $^{13}C_8$ *FOSA*	%	118	114	113	120	125
Extracted ISTD d_3 *N MeFOSA*	%	86	78	80	87	90
Extracted ISTD d_5 *NEtFOSA*	%	84	78	80	81	89
Extracted ISTD d_7 *N MeFOSE*	%	98	95	94	96	103
Extracted ISTD d_9 *N EtFOSE*	%	92	89	86	85	96
Extracted ISTD d_3 *N MeFOSAA*	%	84	79	76	73	79
Extracted ISTD d_5 *N EtFOSAA*	%	75	74	71	68	71
Total Positive PFHxS & PFOS	µg/L	0.09	0.09	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	0.09	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	0.09	0.09	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.4	8.9	9.4	9.4	9.1
pH of soil ASLP (after HCl)	pH units	1.8	1.7	1.8	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	5.0	5.0	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	0.26	0.27	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	0.18	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	101	98	100	101	98
Surrogate $^{13}C_2$ PFOA	%	99	101	102	100	102

PFAS in TCLP Extended						
Our Reference		18086-36	18086-37	18086-38	18086-39	18086-40
Your Reference	UNITS	CAG-CAT01-SB16-3.0	CAG-CAT01-SB16-4.0	CAG-CAT01-SB17-0.2	CAG-CAT01-SB17-0.5	CAG-CAT01-SB17-1.0
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	100	105	101	106	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	109	109	107	112	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	105	99	101	100
Extracted ISTD $^{13}C_4$ *PFBA*	%	88	90	88	89	87
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	95	93	95	92
Extracted ISTD $^{13}C_2$ *PFHxA*	%	95	96	95	98	93
Extracted ISTD $^{13}C_4$ *PFHpA*	%	100	100	98	102	97
Extracted ISTD $^{13}C_4$ *PFOA*	%	103	102	100	101	98
Extracted ISTD $^{13}C_5$ *PFNA*	%	95	95	93	94	93
Extracted ISTD $^{13}C_2$ *PFDA*	%	94	94	92	92	89
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	90	93	89	89	89
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	75	78	76	79	81
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	59	67	67	83	76
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	88	89	85	86	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	97	95	100	99
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	85	78	84	83	79
Extracted ISTD $^{13}C_8$ *FOSA*	%	115	119	116	121	116
Extracted ISTD d_3 *N MeFOSA*	%	83	81	85	91	86
Extracted ISTD d_5 *NEtFOSA*	%	79	80	84	93	87
Extracted ISTD d_7 *N MeFOSE*	%	98	99	98	104	101
Extracted ISTD d_9 *N EtFOSE*	%	92	93	89	98	96
Extracted ISTD d_3 *N MeFOSAA*	%	85	82	79	84	79
Extracted ISTD d_5 *N EtFOSAA*	%	75	76	76	77	74
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	0.44	0.27	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	0.18	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	0.44	0.32	<0.05

PFAS in TCLP Extended						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	8.6	9.1	9.5	8.6	9.0
pH of soil ASLP (after HCl)	pH units	1.8	1.8	1.7	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	5.3	5.0	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	98	98	103	98	96
Surrogate $^{13}C_2$ PFOA	%	102	105	101	100	98

PFAS in TCLP Extended						
Our Reference		18086-41	18086-42	18086-43	18086-44	18086-45
Your Reference	UNITS	CAG-CAT01-SB17-1.5	CAG-CAT01-SB17-2.0	CAG-CAT01-SB17-3.0	CAG-CAT01-SB17-4.0	FD01
Date Sampled		11/09/2019	11/09/2019	11/09/2019	11/09/2019	09/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	102	99	102	103	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	108	107	108	111	104
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	100	99	103	99
Extracted ISTD $^{13}C_4$ *PFBA*	%	88	77	86	89	84
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	90	95	96	91
Extracted ISTD $^{13}C_2$ *PFHxA*	%	95	93	97	97	90
Extracted ISTD $^{13}C_4$ *PFHpA*	%	99	98	101	102	96
Extracted ISTD $^{13}C_4$ *PFOA*	%	101	97	102	100	95
Extracted ISTD $^{13}C_5$ *PFNA*	%	94	92	92	89	87
Extracted ISTD $^{13}C_2$ *PFDA*	%	92	91	91	88	86
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	83	88	92	88	83
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	74	77	80	79	79
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	44	63	80	69	97
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	87	86	89	86	83
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	94	95	102	95	89
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	86	78	88	92	90
Extracted ISTD $^{13}C_8$ *FOSA*	%	115	117	118	119	117
Extracted ISTD d_3 *N MeFOSA*	%	76	84	91	82	100
Extracted ISTD d_5 *NEtFOSA*	%	73	79	91	81	106
Extracted ISTD d_7 *N MeFOSE*	%	95	97	98	99	101
Extracted ISTD d_9 *N EtFOSE*	%	86	94	97	93	99
Extracted ISTD d_3 *N MeFOSAA*	%	79	80	85	85	80
Extracted ISTD d_5 *N EtFOSAA*	%	74	76	82	77	70
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

PFAS in TCLP Extended						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	9.0	9.3	9.3	8.7	9.2
pH of soil ASLP (after HCl)	pH units	1.8	1.7	1.9	1.8	1.8
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	5.1	5.0	4.9	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	0.15	0.11	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	0.10	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	95	101	100	98	104
Surrogate $^{13}C_2$ PFOA	%	103	103	101	101	100

PFAS in TCLP Extended						
Our Reference		18086-46	18086-47	18086-48	18086-49	18086-50
Your Reference	UNITS	FD02	FD03	FD04	FD05	FD06
Date Sampled		09/09/2019	10/09/2019	10/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	98	98	99	101	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	107	101	105	105
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	97	98	102	97
Extracted ISTD $^{13}C_4$ *PFBA*	%	84	84	84	87	87
Extracted ISTD $^{13}C_3$ *PFPeA*	%	90	91	90	93	94
Extracted ISTD $^{13}C_2$ *PFHxA*	%	90	92	93	94	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%	95	97	98	99	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	96	97	98	98
Extracted ISTD $^{13}C_5$ *PFNA*	%	87	90	89	91	92
Extracted ISTD $^{13}C_2$ *PFDA*	%	81	90	88	90	91
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	83	85	83	88	91
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	67	75	72	77	79
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	53	49	39	50	53
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	83	85	86	87	85
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	88	95	98	92	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	84	86	78	82	90
Extracted ISTD $^{13}C_8$ *FOSA*	%	108	120	113	116	121
Extracted ISTD d_3 *N MeFOSA*	%	72	80	76	77	82
Extracted ISTD d_5 *NEtFOSA*	%	68	78	72	75	79
Extracted ISTD d_7 *N MeFOSE*	%	86	98	92	97	99
Extracted ISTD d_9 *N EtFOSE*	%	83	92	87	91	94
Extracted ISTD d_3 *N MeFOSAA*	%	78	81	81	81	83
Extracted ISTD d_5 *N EtFOSAA*	%	72	77	74	74	79
Total Positive PFHxS & PFOS	µg/L	<0.05	0.15	0.21	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	0.1	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	0.15	0.21	<0.05	<0.05

PFAS in TCLP Extended					
Our Reference		18086-51	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
Date analysed	-	13/09/2019	13/09/2019	13/09/2019	13/09/2019
pH of soil for ASLP	pH units	8.8	8.4	8.2	8.9
pH of soil ASLP (after HCl)	pH units	1.8	1.7	1.7	1.8
Extraction fluid used	-	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	5.0	4.9
Perfluorobutanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluoropentanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorohexanesulfonic acid PFHxS	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorooctanesulfonic acid PFOS	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorodecanesulfonic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorobutanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorohexanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluoroheptanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorooctanoic acid PFOA	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorononanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorodecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluoroundecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05
6:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05
8:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05
10:2 FTS	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Surrogate $^{13}C_8$ PFOS	%	102	95	100	98
Surrogate $^{13}C_2$ PFOA	%	101	101	100	102

PFAS in TCLP Extended					
Our Reference		18086-51	18086-53	18086-54	18086-55
Your Reference	UNITS	FD07	CAG-CAT01-SB02-7.0	CAG-CAT01-SB06-6.0	CAG-CAT01-SB17-6.0
Date Sampled		11/09/2019	09/09/2019	10/09/2019	11/09/2019
Type of sample		Soil	Soil	Soil	Soil
Extracted ISTD $^{13}C_3$ *PFBS*	%	100	97	97	103
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	106	101	109
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	101	96	102
Extracted ISTD $^{13}C_4$ *PFBA*	%	86	86	84	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%	94	93	90	96
Extracted ISTD $^{13}C_2$ *PFHxA*	%	92	94	90	96
Extracted ISTD $^{13}C_4$ *PFHpA*	%	98	98	95	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	99	97	102
Extracted ISTD $^{13}C_5$ *PFNA*	%	91	91	88	96
Extracted ISTD $^{13}C_2$ *PFDA*	%	89	90	86	94
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	86	89	86	93
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	72	78	72	77
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	47	56	40	44
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	83	83	80	88
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	92	94	90	98
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	84	83	84	92
Extracted ISTD $^{13}C_8$ *FOSA*	%	117	120	113	121
Extracted ISTD d_3 *N MeFOSA*	%	76	85	75	87
Extracted ISTD d_5 *NEtFOSA*	%	71	81	67	83
Extracted ISTD d_7 *N MeFOSE*	%	96	99	90	99
Extracted ISTD d_9 *N EtFOSE*	%	87	95	84	93
Extracted ISTD d_3 *N MeFOSAA*	%	86	84	82	83
Extracted ISTD d_5 *N EtFOSAA*	%	77	77	75	77
Total Positive PFHxS & PFOS	µg/L	<0.05	<0.05	<0.05	<0.05
Total Positive PFOS & PFOA	µg/L	<0.05	<0.05	<0.05	<0.05
Total Positive PFAS	µg/L	<0.05	<0.05	<0.05	<0.05

Method ID	Methodology Summary
AS1289.3.6.3	Determination Particle Size Analysis using AS1289.3.6.3 and AS1289.3.6.1 and in house method INORG-107. Clay fraction at <2um reported.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only as analysis outside of the APHA storage times.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311. Please note that the sample mass used may be scaled down from the default based on the sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.
Inorg-013	Cyanide - total determined colourimetrically after distillation, based on APHA latest edition, 4500-CN_C,E. Free cyanide determined colourimetrically after filtration and confirmed by diffusion. Solids are extracted in a caustic media prior to distillation and analysis.
Inorg-024	Hexavalent Chromium (Cr6+) - determined colourimetrically by discrete analyser. Water samples are filtered on receipt prior to analysis.
Inorg-036	Total Organic Carbon or Matter - A titrimetric method that measures the oxidisable organic content of soils.
Inorg-083	Based on APHA 4500 I. WAD Cyanide is determined colourimetrically by discrete analyser after it is distilled from a slightly acidified sample. Solids are extracted in a caustic media prior to distillation and analysis.
Metals-009	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.

Method ID	Methodology Summary
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Note, For OCs the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Note, the Total +ve Cresols or Phenols PQL is reflective of the lowest individual PQL and is therefore" Total +ve Cresols or Phenols" is simply a sum of the positive individual Cresols or Phenols.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
ORG-031	Acid herbicides and speciated phenols in soil by DCM:Acetone extraction with derivatisation and determination by GC-MS. Haloacetic acids in waters are derivatised and analysed by GC-ECD. Acid herbicides, speciated phenols, carbamates and ureas in water by DCM extraction with derivatisation and determination by GC-MS. Analysed by MPL, NATA accrediation 2901.
Org-035	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: VOC in soils						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-41
Date extracted	-			13/09/2019	36	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			13/09/2019	36	16/09/2019	16/09/2019		13/09/2019	16/09/2019
carbon tetrachloride	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
chlorobenzene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
chloroform	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	94	90
1,2-dichlorobenzene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	94	80
1,1-Dichloroethene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
methylene chloride	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
MEK	mg/kg	5	Org-014	<5	36	<5	<5	0	[NT]	[NT]
styrene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
1,1,1,2-tetrachloroethane	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
Tetrachloroethene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	100	99
1,1,1-trichloroethane	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	92	87
1,1,2-trichloroethane	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
trichloroethene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	98	94
Vinyl Chloride	mg/kg	1	Org-014	<1	36	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	0.5	Org-014	<0.5	36	<0.5	<0.5	0	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-014	97	36	96	96	0	97	97
Surrogate Dibromofluoromethane	%		Org-014	92	36	92	91	1	93	91
Surrogate Toluene-d_8	%		Org-014	94	36	96	98	2	100	100
Surrogate aaa-Trifluorotoluene	%		Org-014	97	36	95	97	2	100	92

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-28
Date extracted	-			17/09/2019	13	17/09/2019	17/09/2019		13/09/2019	17/09/2019
Date analysed	-			18/09/2019	13	18/09/2019	18/09/2019		13/09/2019	18/09/2019
vTRH C_6 - C_9	mg/kg	25	Org-016	<25	13	<25	<25	0	94	96
vTRH C_6 - C_{10}	mg/kg	25	Org-016	<25	13	<25	<25	0	94	96
Benzene	mg/kg	0.2	Org-016	<0.2	13	<0.2	<0.2	0	95	99
Toluene	mg/kg	0.5	Org-016	<0.5	13	<0.5	<0.5	0	95	102
Ethylbenzene	mg/kg	1	Org-016	<1	13	<1	<1	0	95	97
m+p-xylene	mg/kg	2	Org-016	<2	13	<2	<2	0	92	92
o-Xylene	mg/kg	1	Org-016	<1	13	<1	<1	0	94	94
Naphthalene	mg/kg	1	Org-014	<1	13	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	85	13	93	94	1	94	99

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-44
Date extracted	-			[NT]	27	17/09/2019	17/09/2019		13/09/2019	13/09/2019
Date analysed	-			[NT]	27	18/09/2019	18/09/2019		16/09/2019	16/09/2019
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	27	<25	<25	0	98	93
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	27	<25	<25	0	98	93
Benzene	mg/kg	0.2	Org-016	[NT]	27	<0.2	<0.2	0	103	97
Toluene	mg/kg	0.5	Org-016	[NT]	27	<0.5	<0.5	0	103	98
Ethylbenzene	mg/kg	1	Org-016	[NT]	27	<1	<1	0	97	93
m+p-xylene	mg/kg	2	Org-016	[NT]	27	<2	<2	0	94	89
o-Xylene	mg/kg	1	Org-016	[NT]	27	<1	<1	0	96	93
Naphthalene	mg/kg	1	Org-014	[NT]	27	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	27	94	97	3	102	96

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			[NT]	36	13/09/2019	13/09/2019		17/09/2019	[NT]
Date analysed	-			[NT]	36	16/09/2019	16/09/2019		18/09/2019	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	36	<25	<25	0	94	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	36	<25	<25	0	94	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	36	<0.2	<0.2	0	94	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	36	<0.5	<0.5	0	97	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	36	<1	<1	0	91	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	36	<2	<2	0	93	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	36	<1	<1	0	94	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	36	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	36	94	96	2	94	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	38	17/09/2019	17/09/2019		[NT]	[NT]
Date analysed	-			[NT]	38	18/09/2019	18/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	38	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	38	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	38	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	38	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	38	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	38	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	38	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	38	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	38	97	98	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	49	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	49	16/09/2019	16/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	49	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	49	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	49	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	49	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	49	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	49	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	49	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	49	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	49	93	91	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	55	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	55	16/09/2019	16/09/2019		[NT]	[NT]
vTRH C_6 - C_9	mg/kg	25	Org-016	[NT]	55	<25	<25	0	[NT]	[NT]
vTRH C_6 - C_{10}	mg/kg	25	Org-016	[NT]	55	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	55	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	55	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	55	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	55	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	55	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-014	[NT]	55	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	55	92	92	0	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-25
Date extracted	-			17/09/2019	1	13/09/2019	13/09/2019		13/09/2019	17/09/2019
Date analysed	-			18/09/2019	1	14/09/2019	14/09/2019		14/09/2019	18/09/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	<50	1	<50	<50	0	98	95
TRH C_{15} - C_{28}	mg/kg	100	Org-003	<100	1	<100	<100	0	90	98
TRH C_{29} - C_{36}	mg/kg	100	Org-003	<100	1	<100	<100	0	93	94
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	<50	1	<50	<50	0	98	95
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	<100	1	<100	<100	0	90	98
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	<100	1	<100	<100	0	93	94
Surrogate o-Terphenyl	%		Org-003	87	1	80	80	0	74	80

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-45
Date extracted	-			[NT]	12	17/09/2019	17/09/2019		13/09/2019	13/09/2019
Date analysed	-			[NT]	12	18/09/2019	18/09/2019		14/09/2019	14/09/2019
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	12	<50	<50	0	95	95
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	12	<100	<100	0	88	92
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	12	<100	<100	0	93	89
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	12	<50	<50	0	95	95
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	12	<100	<100	0	88	92
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	12	<100	<100	0	93	89
Surrogate o-Terphenyl	%		Org-003	[NT]	12	82	81	1	73	73

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			[NT]	24	17/09/2019	17/09/2019		17/09/2019	[NT]
Date analysed	-			[NT]	24	18/09/2019	18/09/2019		18/09/2019	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	24	<50	<50	0	93	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	24	<100	<100	0	95	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	24	<100	<100	0	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	24	<50	<50	0	93	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	24	<100	<100	0	95	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	24	<100	<100	0	93	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	24	84	83	1	79	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	37	17/09/2019	17/09/2019		[NT]	[NT]
Date analysed	-			[NT]	37	18/09/2019	18/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	37	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	37	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	37	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	37	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	37	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	37	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	37	85	84	1	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	43	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	43	14/09/2019	14/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	43	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	43	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	43	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	43	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	43	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	43	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	43	80	80	0	[NT]	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	54	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	54	14/09/2019	14/09/2019		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	[NT]	54	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	[NT]	54	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	[NT]	54	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	[NT]	54	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	[NT]	54	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	[NT]	54	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	54	81	80	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-6
Date extracted	-			17/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			18/09/2019	1	15/09/2019	15/09/2019		15/09/2019	15/09/2019
Naphthalene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	88	93
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	84	79
Acenaphthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	96	91
Phenanthrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	87
Anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	83
Pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	84	83
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	100	99
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	1	<0.05	<0.05	0	84	75
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	88	1	84	92	9	88	88

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Date extracted	-			[NT]	24	17/09/2019	17/09/2019		13/09/2019	17/09/2019
Date analysed	-			[NT]	24	18/09/2019	18/09/2019		15/09/2019	18/09/2019
Naphthalene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	94	107
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	88	103
Acenaphthene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	104	103
Phenanthrene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	96	106
Anthracene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	94	107
Pyrene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	96	119
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	106	116
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	24	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	24	<0.05	<0.05	0	80	92
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	24	86	90	5	90	92

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-47
Date extracted	-			[NT]	37	17/09/2019	17/09/2019		17/09/2019	13/09/2019
Date analysed	-			[NT]	37	18/09/2019	18/09/2019		18/09/2019	15/09/2019
Naphthalene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	108	99
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	108	91
Acenaphthene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	104	111
Phenanthrene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	100	102
Anthracene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	108	99
Pyrene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	116	102
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	112	114
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	37	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	37	<0.05	<0.05	0	92	79
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	37	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	37	92	84	9	96	92

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	43	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	43	15/09/2019	15/09/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	43	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	43	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	43	92	88	4	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	54	13/09/2019	13/09/2019		[NT]	[NT]
Date analysed	-			[NT]	54	15/09/2019	15/09/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	[NT]	54	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	54	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	54	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	[NT]	54	106	90	16	[NT]	[NT]

QUALITY CONTROL: Speciated Phenols in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-6
Date extracted	-		Org-012	13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-		Org-012	15/09/2019	1	15/09/2019	15/09/2019		15/09/2019	15/09/2019
Phenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	88	87
2-Chlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	88	90
2-Methylphenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	88	92
3/4-Methylphenol	mg/kg	0.4	Org-012	<0.4	1	<0.4	<0.4	0	[NT]	[NT]
2-Nitrophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dimethylphenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,6-Dichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	84	100
2,4,5-Trichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4,6-Trichlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
2,4-Dinitrophenol	mg/kg	2	Org-012	<2	1	<2	<2	0	[NT]	[NT]
4-Nitrophenol	mg/kg	4	Org-012	<4	1	<4	<4	0	[NT]	[NT]
2,3,4,6-Tetrachlorophenol	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Pentachlorophenol	mg/kg	1	Org-012	<1	1	<1	<1	0	108	79
4-Chloro-3-Methylphenol	mg/kg	2	Org-012	<2	1	<2	<2	0	[NT]	[NT]
Surrogate Phenol-d_6	%		Org-012	94	1	76	82	8	94	82

QUALITY CONTROL: OCP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-6
Date extracted	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			15/09/2019	1	15/09/2019	15/09/2019		15/09/2019	15/09/2019
alpha-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	88	86
Hexachlorobenzene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	88	86
gamma-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	79
delta-BHC	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	86
Heptachlor Epoxide	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	72
gamma-Chlordane	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	79
alpha-chlordane	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	79
Dieldrin	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	76	79
Endrin	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	104	99
Endrin Aldehyde	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	92	86
Methoxychlor	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	94	1	84	92	9	88	88

QUALITY CONTROL: OP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-6
Date extracted	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			15/09/2019	1	15/09/2019	15/09/2019		15/09/2019	15/09/2019
Azinphos-methyl	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	75
Chlorpyrifos-methyl	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dichlorovos	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	71
Fenitrothion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	72	68
Malathion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	94	1	84	92	9	88	88

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-6
Date extracted	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			15/09/2019	1	15/09/2019	15/09/2019		15/09/2019	15/09/2019
Aroclor 1016	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	80	79
Aroclor 1260	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	94	1	84	92	9	88	88

QUALITY CONTROL: Acid Herbicides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-16
Date extracted	-			17/09/2019	11	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			18/09/2019	11	14/09/2019	14/09/2019		14/09/2019	14/09/2019
2,4-D	mg/kg	0.5	ORG-031	<0.5	11	<0.5	<0.5	0	74	86
Fluroxypyr	mg/kg	0.2	ORG-031	<0.2	11	<0.2	<0.2	0	[NT]	[NT]
Picloram	mg/kg	0.5	ORG-031	<0.5	11	<0.5	<0.5	0	[NT]	[NT]
Triclopyr	mg/kg	0.5	ORG-031	<0.5	11	<0.5	<0.5	0	[NT]	[NT]
2,4,5-T	mg/kg	0.5	ORG-031	<0.5	11	<0.5	<0.5	0	76	86
Surrogate: 2,4-DCPA	%		ORG-031	84	11	84	86	2	82	86

QUALITY CONTROL: SVOC in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-6
Date extracted	-			13/09/2019	1	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			15/09/2019	1	15/09/2019	15/09/2019		15/09/2019	15/09/2019
2,4-Dinitrotoluene	mg/kg	1	Org-012	<1	1	<1	<1	0	76	75
Nitrobenzene	mg/kg	1	Org-012	<1	1	<1	<1	0	92	91
Surrogate p-Terphenyl-d_{14}	%		Org-012	94	1	98	108	10	88	88

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-3
Date digested	-			14/09/2019	2	18/09/2019	18/09/2019		14/09/2019	18/09/2019
Date analysed	-			16/09/2019	2	18/09/2019	18/09/2019		16/09/2019	18/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	2	8	7	13	109	94
Beryllium	mg/kg	1	Metals-020 ICP-AES	<1	2	1	1	0	116	96
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	2	<0.4	<0.4	0	109	88
Lead	mg/kg	1	Metals-020 ICP-AES	<1	2	26	23	12	103	85
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	2	<0.1	<0.1	0	104	91
Molybdenum	mg/kg	1	Metals-020 ICP-AES	<1	2	<1	<1	0	106	80
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	2	16	16	0	105	84
Selenium	mg/kg	2	Metals-020 ICP-AES	<2	2	<2	<2	0	100	87
Silver	mg/kg	1	Metals-020 ICP-AES	<1	2	<1	<1	0	105	102
Iron	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	110	#

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-30
Date digested	-			[NT]	14	18/09/2019	18/09/2019		14/09/2019	18/09/2019
Date analysed	-			[NT]	14	18/09/2019	18/09/2019		16/09/2019	18/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	14	<4	<4	0	95	95
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	14	1	<1	0	105	97
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	14	<0.4	<0.4	0	97	88
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	14	8	9	12	94	82
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	14	<0.1	<0.1	0	96	104
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	14	<1	<1	0	94	78
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	14	11	20	58	94	85

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-30
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	14	<2	<2	0	90	83
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	14	<1	<1	0	92	102
Iron	mg/kg	1	Metals-020 ICP-AES	[NT]	[NT]	[NT]	[NT]	[NT]	99	#

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-48
Date digested	-			[NT]	21	14/09/2019	14/09/2019		18/09/2019	14/09/2019
Date analysed	-			[NT]	21	16/09/2019	16/09/2019		18/09/2019	16/09/2019
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	21	<4	<4	0	97	88
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	21	<1	<1	0	105	90
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	21	<0.4	<0.4	0	96	84
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	21	11	9	20	96	74
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	21	<0.1	<0.1	0	99	91
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	21	<1	<1	0	94	75
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	21	8	7	13	94	86
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	21	<2	<2	0	89	79
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	21	<1	<1	0	92	99
Iron	mg/kg	1	Metals-020 ICP-AES	[NT]	[NT]	[NT]	[NT]	[NT]	96	#

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	29	18/09/2019	18/09/2019		[NT]	[NT]
Date analysed	-			[NT]	29	18/09/2019	18/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	29	<4	<4	0	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	29	<1	<1	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	29	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	29	7	13	60	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	29	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	29	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	29	8	11	32	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	29	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	29	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	40	18/09/2019	18/09/2019		[NT]	[NT]
Date analysed	-			[NT]	40	18/09/2019	18/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	40	<4	<4	0	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	40	1	1	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	40	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	40	20	21	5	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	40	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	40	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	40	11	12	9	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	40	<2	<2	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	40	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	46	14/09/2019	14/09/2019		[NT]	[NT]
Date analysed	-			[NT]	46	16/09/2019	16/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	46	<4	4	0	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	46	1	2	67	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	46	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	46	12	13	8	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	46	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	46	<1	<1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	46	12	18	40	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	46	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	46	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date digested	-			[NT]	55	14/09/2019	14/09/2019		[NT]	[NT]
Date analysed	-			[NT]	55	16/09/2019	16/09/2019		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	[NT]	55	5	13	89	[NT]	[NT]
Beryllium	mg/kg	1	Metals-020 ICP-AES	[NT]	55	<1	<1	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	[NT]	55	<0.4	<0.4	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	[NT]	55	9	18	67	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	[NT]	55	<0.1	<0.1	0	[NT]	[NT]
Molybdenum	mg/kg	1	Metals-020 ICP-AES	[NT]	55	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: NSW DECC Metals						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	[NT]	55	8	16	67	[NT]	[NT]
Selenium	mg/kg	2	Metals-020 ICP-AES	[NT]	55	<2	<2	0	[NT]	[NT]
Silver	mg/kg	1	Metals-020 ICP-AES	[NT]	55	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: Inorganics in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-41
Date prepared	-			13/09/2019	41	13/09/2019	13/09/2019		13/09/2019	13/09/2019
Date analysed	-			16/09/2019	41	16/09/2019	16/09/2019		16/09/2019	16/09/2019
Hexavalent Chromium, Cr^{6+}	mg/kg	1	Inorg-024	<1	41	<1	<1	0	100	[NT]
Total Cyanide	mg/kg	0.5	Inorg-013	<0.5	41	<0.5	<0.5	0	81	#
Weak Acid Dissociable Cyanide	mg/kg	0.5	Inorg-083	<0.5	41	<0.5	<0.5	0	81	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	41	8.7	8.7	0	99	[NT]
pH 1:5 soil:$CaCl_2$	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Total Organic Carbon (Walkley Black)	mg/kg	1000	Inorg-036	<1000	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: Cation exchange capacity					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-009	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Exchangeable K	meq/100g	0.1	Metals-009	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-009	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Exchangeable Na	meq/100g	0.1	Metals-009	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Cation Exchange Capacity	meq/100g	1	Metals-009	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-2
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	100	101
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	109	107
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	113	116
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	107	107
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	110	105
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	99	82
Perfluorobutanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	105	108
Perfluoropentanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	98	99
Perfluorohexanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	103	102
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	103	107
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	105	103
Perfluorononanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	106	105
Perfluorodecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	107	114
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	102	106
Perfluorododecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	104	104
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	96	68
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	103	104
4:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	99	106
6:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	102	103
8:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	96	95
10:2 FTS	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	96	74
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	102	107
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	98	95
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	99	97
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	99	103
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	98	102
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	95	95
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	<0.005	1	<0.005	<0.005	0	105	106
Surrogate $^{13}C_8$ PFOS	%		Org-035	102	1	102	98	4	103	96
Surrogate $^{13}C_2$ PFOA	%		Org-035	99	1	101	97	4	100	101
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	87	1	79	83	5	85	83

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-2
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	91	1	89	82	8	88	86
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	83	1	84	87	4	85	87
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	83	1	80	78	3	87	78
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	90	1	82	82	0	86	82
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	94	1	85	84	1	89	86
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	91	1	82	82	0	88	82
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	89	1	88	89	1	93	87
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	95	1	89	85	5	93	85
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	93	1	95	89	7	98	90
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	113	1	85	79	7	94	83
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	107	1	74	76	3	94	69
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	88	1	62	68	9	88	58
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	103	1	86	86	0	93	85
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	108	1	92	88	4	106	90
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	106	1	92	97	5	122	99
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	91	1	89	93	4	98	91
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	79	1	77	72	7	86	77
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	73	1	72	68	6	85	70
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	78	1	90	87	3	98	89
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	85	1	89	85	5	102	86

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-2
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	120	1	82	81	1	105	80
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	124	1	79	78	1	97	77

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	100	92
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	108	99
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	11	0.009	0.011	20	115	106
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	106	97
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	11	0.012	0.018	40	109	100
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	93	75
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	107	102
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	97	92
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	99	94
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	106	100
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	96
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	94
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	110	99
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	106	94
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	96
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	76	129
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	102	93
4:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	104	97
6:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	101	103
8:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	97	89
10:2 FTS	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	93	69
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	105	94
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	96	88
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	96	89
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	98	91
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	97	91
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	94	90
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	11	<0.005	<0.005	0	107	105
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	11	93	99	6	103	100
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	11	105	104	1	97	99
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	11	92	99	7	95	95

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	11	99	105	6	99	101
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	11	91	95	4	99	97
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	11	81	85	5	99	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	11	93	97	4	97	91
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	11	101	102	1	103	101
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	11	95	97	2	98	93
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	11	98	98	0	109	101
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	11	103	105	2	110	99
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	11	111	111	0	111	103
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	11	123	143	15	106	93
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	11	117	132	12	107	76
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	11	48	62	25	84	33
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	11	103	110	7	101	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	11	109	118	8	112	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	11	99	119	18	126	98
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	11	96	98	2	112	96
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	11	76	80	5	89	75
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	11	72	74	3	80	66
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	11	95	103	8	112	95
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	11	94	96	2	121	93

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	11	122	139	13	125	94
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	11	128	142	10	116	81

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-42
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	108	108
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	108	109
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	106	103
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	107	106
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	105	104
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	92	85
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	107	107
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	102	108
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	109	112
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	109	104
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	103	103
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	97	100
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	104	97
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	107	92
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	99	109
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	108	66
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	102	111
4:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	100	102
6:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	118	95
8:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	110	94
10:2 FTS	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	128	92
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	112	107
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	101	104
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	99	107
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	127	111
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	93	96
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	95	99
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	21	<0.005	<0.005	0	95	101
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	21	104	106	2	90	96
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	21	97	96	1	102	105
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	21	90	90	0	86	83

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-42
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	21	93	96	3	91	88
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	21	94	93	1	85	82
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	21	88	90	2	84	71
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	21	91	91	0	91	80
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	21	96	97	1	94	85
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	21	91	92	1	88	85
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	21	100	104	4	90	83
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	21	97	101	4	104	94
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	21	99	100	1	91	90
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	21	89	90	1	104	107
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	21	79	82	4	109	82
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	21	39	91	80	122	35
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	21	96	98	2	106	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	21	97	100	3	92	98
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	21	98	98	0	87	103
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	21	106	106	0	89	90
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	21	87	88	1	84	65
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	21	79	81	2	79	54
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	21	108	111	3	77	75
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	21	108	110	2	92	75

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-42
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	21	92	91	1	114	93
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	21	87	84	4	113	85

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	31	0.018	0.015	18	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	31	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	31	103	99	4	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	31	106	99	7	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	31	85	88	3	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	31	87	92	6	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	31	83	84	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	31	78	80	3	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	31	91	87	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	31	90	92	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	31	88	90	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	31	90	89	1	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	31	101	98	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	31	105	91	14	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	31	99	107	8	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	31	109	114	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	31	69	81	16	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	31	114	107	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	31	146	111	27	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	31	111	109	2	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	31	86	88	2	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	31	72	76	5	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	31	68	72	6	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	31	92	91	1	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	31	87	84	4	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	31	110	107	3	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	31	103	84	20	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	41	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	41	107	103	4	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	41	107	106	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	41	78	83	6	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	41	83	89	7	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	41	74	79	7	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	41	70	71	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	41	82	84	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	41	85	87	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	41	84	85	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	41	80	83	4	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	41	94	93	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	41	89	94	5	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	41	97	107	10	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	41	81	82	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	41	21	30	35	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	41	90	91	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	41	94	91	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	41	98	97	1	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	41	82	80	2	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	41	48	57	17	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	41	40	49	20	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	41	72	73	1	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	41	66	72	9	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	41	88	89	1	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	41	81	98	19	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanesulfonic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorobutanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoropentanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorohexanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoroheptanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorononanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorodecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluoroundecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorododecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorotridecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorotetradecanoic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
4:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
6:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
8:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
10:2 FTS	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	mg/kg	0.005	Org-035	[NT]	51	<0.005	<0.005	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	51	101	101	0	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	51	105	106	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	51	80	85	6	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	51	82	87	6	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	51	78	81	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	51	71	69	3	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	51	84	84	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	51	88	87	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	51	84	83	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	51	84	83	1	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	51	98	92	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	51	93	96	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	51	106	116	9	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	51	86	83	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	51	40	25	46	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	51	85	86	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	51	85	95	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	51	102	102	0	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	51	83	80	4	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	51	56	56	0	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	51	53	48	10	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	51	73	80	9	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	51	72	71	1	[NT]	[NT]

QUALITY CONTROL: PFAS in Soil Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	51	92	105	13	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	51	104	94	10	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-2
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	110	126
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	111	126
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	108	116
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	102	122
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	113	115
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	90	86
Perfluorobutanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	115	120
Perfluoropentanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	114	116
Perfluorohexanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	113	117
Perfluoroheptanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	101	104
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	107	105
Perfluorononanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	101	103
Perfluorodecanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	95	107
Perfluoroundecanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	89	99
Perfluorododecanoic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	110	113
Perfluorotridecanoic acid	µg/L	0.1	Org-035	<0.1	1	<0.1	<0.1	0	83	84
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	<0.5	1	<0.5	<0.5	0	111	118
4:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	107	113
6:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	111	117
8:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	119	105
10:2 FTS	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	104	109
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	<0.1	1	<0.1	<0.1	0	111	121
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	104	118
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	<0.1	1	<0.1	<0.1	0	110	115
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	109	113
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	<0.5	1	<0.5	<0.5	0	119	115
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	102	106
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	<0.05	1	<0.05	<0.05	0	99	112
Surrogate $^{13}C_8$ PFOS	%		Org-035	104	1	94	104	10	100	98
Surrogate $^{13}C_2$ PFOA	%		Org-035	101	1	105	106	1	110	101
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	93	1	91	96	5	95	87

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-2
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	98	1	95	101	6	101	93
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	86	1	91	90	1	87	89
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	90	1	81	80	1	88	72
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	96	1	92	97	5	95	89
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	100	1	93	98	5	98	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	95	1	92	100	8	95	91
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	95	1	94	96	2	91	93
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	108	1	104	111	7	107	100
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	101	1	111	108	3	112	104
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	112	1	121	117	3	126	126
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	99	1	108	94	14	105	100
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	61	1	56	42	29	64	58
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	98	1	93	102	9	97	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	114	1	105	117	11	108	103
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	96	1	97	99	2	91	99
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	96	1	92	97	5	96	91
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	113	1	114	98	15	117	113
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	122	1	114	107	6	135	126
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	113	1	102	89	14	98	96
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	98	1	88	86	2	90	93

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	18086-2
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	132	1	119	127	7	129	115
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	128	1	121	119	2	141	122

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	107	108
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	112	118
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	11	0.45	0.41	9	111	111
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	113	109
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	11	0.12	0.10	18	109	81
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	108	83
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	114	116
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	108	109
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	11	0.05	0.05	0	111	109
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	101	104
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	105	103
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	108	107
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	113	109
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	113	109
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	111	115
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	11	<0.1	<0.1	0	86	84
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	11	<0.5	<0.5	0	112	112
4:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	108	108
6:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	103	110
8:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	111	115
10:2 FTS	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	100	72
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	11	<0.1	<0.1	0	109	108
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	111	110
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	11	<0.1	<0.1	0	104	103
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	128	127
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	11	<0.5	<0.5	0	123	120
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	110	105
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	11	<0.05	<0.05	0	111	112
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	11	102	92	10	102	102
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	11	103	98	5	101	102
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	11	92	93	1	94	98

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	11	92	99	7	100	110
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	11	91	99	8	93	95
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	11	78	81	4	77	84
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	11	91	93	2	87	89
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	11	98	96	2	92	94
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	11	93	98	5	91	93
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	11	93	100	7	88	96
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	11	105	111	6	86	90
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	11	109	107	2	89	89
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	11	118	129	9	85	79
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	11	73	103	34	78	55
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	11	28	42	40	76	53
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	11	99	106	7	74	85
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	11	120	116	3	91	94
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	11	101	99	2	81	75
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	11	84	101	18	100	102
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	11	70	108	43	87	70
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	11	65	110	51	83	67
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	11	78	99	24	94	78
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	11	69	98	35	89	67

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	18086-22
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	11	114	126	10	76	73
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	11	98	131	29	73	62

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-42
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	105	110
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	107	119
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	117	116
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	118	117
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	106	106
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	81	104
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	114	119
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	107	110
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	111	111
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	97	99
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	102	106
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	107	113
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	112	118
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	112	114
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	113	113
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	21	<0.1	<0.1	0	73	85
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	21	<0.5	<0.5	0	112	113
4:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	104	110
6:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	106	110
8:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	117	112
10:2 FTS	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	66	101
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	21	<0.1	<0.1	0	104	105
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	109	118
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	21	<0.1	<0.1	0	99	103
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	115	124
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	21	<0.5	<0.5	0	130	138
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	104	107
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	21	<0.05	<0.05	0	105	108
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	21	93	104	11	97	98
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	21	104	105	1	100	104
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	21	95	97	2	103	99

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-42
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	21	108	107	1	102	106
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	21	103	97	6	99	101
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	21	71	66	7	86	73
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	21	86	86	0	91	87
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	21	90	92	2	91	92
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	21	93	96	3	96	94
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	21	98	97	1	96	92
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	21	92	92	0	90	85
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	21	90	91	1	85	86
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	21	91	84	8	70	84
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	21	75	75	0	48	77
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	21	68	64	6	40	67
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	21	84	89	6	83	81
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	21	104	106	2	93	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	21	94	88	7	70	84
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	21	119	116	3	105	112
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	21	91	94	3	64	81
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	21	89	98	10	57	80
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	21	97	98	1	75	99
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	21	92	94	2	62	92

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	18086-42
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	21	76	73	4	79	77
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	21	70	67	4	66	75

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	31	0.09	0.11	20	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	31	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	31	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	31	100	99	1	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	31	103	104	1	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-035	[NT]	31	98	95	3	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	31	107	103	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	31	101	101	0	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	31	87	85	2	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	31	93	91	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	31	96	94	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	31	99	96	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	31	100	97	3	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	31	96	94	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	31	94	93	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	31	91	88	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	31	79	77	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	31	68	72	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	31	87	85	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	31	103	97	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	31	92	82	11	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	31	118	115	3	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	31	86	87	1	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	31	84	89	6	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	31	98	102	4	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	31	92	93	1	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	31	84	78	7	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	31	75	76	1	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	41	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	41	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	41	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	41	98	108	10	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	41	102	100	2	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	41	102	96	6	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	41	108	101	7	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	41	100	90	11	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	41	88	82	7	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	41	94	88	7	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	41	95	88	8	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	41	99	93	6	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	41	101	94	7	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	41	94	86	9	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	41	92	85	8	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	41	83	82	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	41	74	70	6	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	41	44	50	13	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	41	87	79	10	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	41	94	90	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	41	86	76	12	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	41	115	109	5	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	41	76	77	1	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	41	73	75	3	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	41	95	89	7	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	41	86	84	2	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	41	79	76	4	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	41	74	71	4	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Perfluorobutanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanesulfonic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorobutanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoropentanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorohexanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoroheptanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorononanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorodecanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluoroundecanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
4:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
6:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
8:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
10:2 FTS	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.05	Org-035	[NT]	51	<0.05	<0.05	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	[NT]	51	102	97	5	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	[NT]	51	101	97	4	[NT]	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	[NT]	51	100	100	0	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	[NT]	51	99	105	6	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	[NT]	51	97	98	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	[NT]	51	86	86	0	[NT]	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	[NT]	51	94	93	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	[NT]	51	92	94	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	[NT]	51	98	98	0	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	[NT]	51	97	98	1	[NT]	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	[NT]	51	91	89	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	[NT]	51	89	88	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	[NT]	51	86	82	5	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	[NT]	51	72	71	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	[NT]	51	47	47	0	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	[NT]	51	83	82	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	[NT]	51	92	88	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	[NT]	51	84	82	2	[NT]	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	[NT]	51	117	117	0	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	[NT]	51	76	80	5	[NT]	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	[NT]	51	71	75	5	[NT]	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	[NT]	51	96	97	1	[NT]	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	[NT]	51	87	91	4	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	[NT]	51	86	81	6	[NT]	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	[NT]	51	77	77	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Report Comments

PFAS, clay and asbestos analysed by Envirolab Sydney, report 225970.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

METALS: The RPD for duplicate results 18086-14 and 18086-46 for Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

The RPD for duplicate results 18086-29 for Lead is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

The RPD for duplicate results 18086-55 for Lead and Nickel is accepted due to the inhomogeneous nature of the sample/s. Triplicate analysis confirms this and is available upon request.

Percent recovery is not possible to report due to the high concentration of Iron in the samples. However an acceptable recovery was obtained for the LCS.

INORGS: # Low spike recovery was obtained for Total Cyanide due to matrix interferences from the sample. However, an acceptable recovery was obtained for the LCS.

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

DATA QUALITY ASSESSMENT SUMMARY

Report Details

Envirolab Report Reference	**18086**
Client ID	Meinhardt
Project Reference	CAG-25-27 Catalina-ENV Assessment
Date Issued	18/09/2019

QC DATA

All laboratory QC data was within the Envirolab Group's specifications except:

QC Specification Exceptions

QC Type	Reference	Analysis	Comments
Precision (as %RPD)	18086-14	Nickel	58% RPD fails internal acceptance criteria
Precision (as %RPD)	18086-29	Lead	60% RPD fails internal acceptance criteria
Precision (as %RPD)	18086-46	Nickel	40% RPD fails internal acceptance criteria
Precision (as %RPD)	18086-55	Lead	67% RPD fails internal acceptance criteria
Precision (as %RPD)	18086-55	Nickel	67% RPD fails internal acceptance criteria
Spike Recovery %	18086-3	Iron	Fails internal acceptance criteria
Spike Recovery %	18086-30	Iron	Fails internal acceptance criteria
Spike Recovery %	18086-41	Total Cyanide	Fails internal acceptance criteria
Spike Recovery %	18086-48	Iron	Fails internal acceptance criteria

See Report 18086-[R00] for QA/QC details

HOLDING TIME COMPLIANCE EVALUATION

All preservation / holding times (based on AS/ASPHA/ISO/NEPM/USEPA reference documents and standards) are compliant.

Certain analyses have had their recommended technical holding times elongated by filtering and/or freezing on receipt at the laboratory (e.g. BOD, chlorophyll/Pheophytin, nutrients and acid sulphate soil tests).

COMPLIANCE TO QC FREQUENCY (NEPM)

Internal laboratory QC rate complies with NEPM requirements (LCS/MB/MS 1 in 20, Duplicates 1 in 10 samples). Note, samples are batched together with other sample consignments in order to assign QC sample frequency.

QC Evaluation

Duplicate(s) was performed as per NEPM frequency	✓
Laboratory Control Sample(s) were analysed with the samples received	✓
A Method Blank was performed with the samples received	✓
Matrix spike(s) was performed as per NEPM frequency	✓

Refer to Certificate of Analysis for all Quality Control data.

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ph 03 9763 2500 fax 03 9763 2633
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SAMPLE RECEIPT ADVICE

Client Details

Client	Meinhardt
Attention	Sid Paleri

Sample Login Details

Your reference	CAG-25-27 Catalina-ENV Assessment
Envirolab Reference	18086
Date Sample Received	12/09/2019
Date Instructions Received	12/09/2019
Date Results Expected to be Reported	17/09/2019

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	55 Soil, 3 Water
Turnaround Time Requested	72hr
Temperature on Receipt (°C)	10.1
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Pamela Adams	Analisa Mathrick
Phone: 03 9763 2500	**Phone: 03 9763 2500**
Fax: 03 9763 2633	**Fax: 03 9763 2633**
Email: padams@envirolab.com.au	**Email: amathrick@envirolab.com.au**

Analysis Underway, details on the following page:

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25 Research Drive Croydon South VIC 3136
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Sample ID	VOC in soils	vTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Speciated Phenols in Soil	OCP in Soil	OP in Soil	PCBsin Soil	Acid Herbicides in soil	SVOC in soil	NSW DECC Metals	Inorganics in soil	Cation exchange capacity	Asbestos ID - soils	PFAS in Soil Extended	PFAS in TCLP Extended	On Hold
CAG-CAT01-SB11-3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
CAG-CAT01-SB11-4.0															✓	✓	
CAG-CAT01-SB12-0.2															✓	✓	
CAG-CAT01-SB12-0.5															✓	✓	
CAG-CAT01-SB12-1.0															✓	✓	
CAG-CAT01-SB12-1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB12-2.0															✓	✓	
CAG-CAT01-SB12-3.0															✓	✓	
CAG-CAT01-SB12-4.0															✓	✓	
CAG-CAT01-SB13-0.2														✓	✓	✓	
CAG-CAT01-SB13-0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB13-1.0															✓	✓	
CAG-CAT01-SB13-1.5															✓	✓	
CAG-CAT01-SB13-2.0															✓	✓	
CAG-CAT01-SB13-3.0															✓	✓	
CAG-CAT01-SB13-4.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB14-0.2															✓	✓	
CAG-CAT01-SB14-0.5															✓	✓	
CAG-CAT01-SB14-1.0															✓	✓	
CAG-CAT01-SB14-1.5															✓	✓	

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Sample ID	VOC in soils	vTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Speciated Phenols in Soil	OCP in Soil	OP in Soil	PCBsin Soil	Acid Herbicides in soil	SVOC in soil	NSW DECC Metals	Inorganics in soil	Cation exchange capacity	Asbestos ID - soils	PFAS in Soil Extended	PFAS in TCLP Extended	On Hold
CAG-CAT01-SB14-2.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB14-3.0															✓	✓	
CAG-CAT01-SB14-4.0															✓	✓	
CAG-CAT01-SB15-0.2															✓	✓	
CAG-CAT01-SB15-0.5														✓	✓	✓	
CAG-CAT01-SB15-1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB15-1.5															✓	✓	
CAG-CAT01-SB15-2.0															✓	✓	
CAG-CAT01-SB15-3.0															✓	✓	
CAG-CAT01-SB15-4.0															✓	✓	
CAG-CAT01-SB16-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB16-0.5											✓	✓	✓		✓	✓	
CAG-CAT01-SB16-1.0															✓	✓	
CAG-CAT01-SB16-1.5															✓	✓	
CAG-CAT01-SB16-2.0															✓	✓	
CAG-CAT01-SB16-3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
CAG-CAT01-SB16-4.0															✓	✓	
CAG-CAT01-SB17-0.2														✓	✓	✓	
CAG-CAT01-SB17-0.5															✓	✓	
CAG-CAT01-SB17-1.0															✓	✓	

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Sample ID	VOC in soils	vTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Speciated Phenols in Soil	OCP in Soil	OP in Soil	PCBsin Soil	Acid Herbicides in soil	SVOC in soil	NSW DECC Metals	Inorganics in soil	Cation exchange capacity	Asbestos ID - soils	PFAS in Soil Extended	PFAS in TCLP Extended	On Hold
CAG-CAT01-SB17-1.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
CAG-CAT01-SB17-2.0		✓	✓	✓							✓				✓	✓	
CAG-CAT01-SB17-3.0		✓	✓	✓							✓				✓	✓	
CAG-CAT01-SB17-4.0		✓	✓	✓							✓				✓	✓	
FD01		✓	✓	✓							✓				✓	✓	
FD02		✓	✓	✓							✓				✓	✓	
FD03		✓	✓	✓							✓			✓	✓	✓	
FD04		✓	✓	✓							✓				✓	✓	
FD05		✓	✓	✓							✓				✓	✓	
FD06		✓	✓	✓							✓				✓	✓	
FD07		✓	✓	✓							✓				✓	✓	
CAG-CAT01-TB01		✓															
CAG-CAT01-SB02-7.0		✓	✓	✓							✓				✓	✓	
CAG-CAT01-SB06-6.0		✓	✓	✓							✓				✓	✓	
CAG-CAT01-SB17-6.0		✓	✓	✓							✓				✓	✓	
CAG-CAT01_MW01																	✓
CAG-CAT01_MW02																	✓
CAG-CAT01_MW03																	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

CHAIN OF CUSTODY

Please report ASAP. This would have got to you earlier had you sent our bottles on time as requested

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	3.10.19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 1 of 1

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

We have a tight deadline on our reporting.

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	pH	TDS	15 Metals (Field Filtered)	TRH, BTEXN, PAH	Major Cations/Anions	PFAS Long Suite	TRH C_6-C_{10}/BTEXN				COMMENTS
1	CAG-CAT01-MW01 1	2.10.19		MG	GW	ESKY	ICE	X	X	X	X	X	X					
2	CAG-CAT01-MW02 2					ESKY	ICE	X	X	X	X	X	X					
3	CAG-CAT01-MW03 3					ESKY	ICE	X	X	X	X	X	X					
4	GW-FD01 4					ESKY	ICE	X	X	X	X	X	X					
5	GW-FS01 #ALS					ESKY	ICE	X	X	X	X	X	X					Please send FS01 to ALS Springvale for Analysis
6	CAG-CAT01-GW-RB01 #5				W	ESKY	ICE			X	X		X					CAG-CAT01-GW-RB01 to get Total Metals
7	CAG-CAT01-GW-TB01 #7 #6 PA.					ESKY	ICE							X				
8						ESKY	ICE											
9						ESKY	ICE											
10						ESKY	ICE											
11						ESKY	ICE											
12						ESKY	ICE											
13						ESKY	ICE											
14						ESKY	ICE											
15						ESKY	ICE											

ENVIROLAB

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 183577

Date Received: 4/10/19
Time Received: 11:45
Received By: TM
Temp: Cool/Ambient 11.9°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S = Soil W= Water

Samples on Ice ☒ Yes ☐ No

NOTES:

- Metals (Field Filtered) includes Al, Sb, As, Be, Cd, Cr(total), Cu, Fe, Pb, Hg, Ni, Se, Ag, Tl and Zn
- PFAS Long Suite includes 28 Analytes

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	MATT GIBBS		3.10.19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY				

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CERTIFICATE OF ANALYSIS 18357

Client Details

Client	Meinhardt
Attention	Sid Paleri
Address	Level 12, 501 Swanston st, Melbourne, VIC, 3000

Sample Details

Your Reference	**CAG-25-27 Catalina-Env Assessment**
Number of Samples	6 Water
Date samples received	03/10/2019
Date completed instructions received	03/10/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	08/10/2019
Date of Issue	08/10/2019

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Chris De Luca, Operations Manager

Authorised By

Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water						
Our Reference		18357-1	18357-2	18357-3	18357-4	18357-5
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01	CAG-CAT01-RB01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	05/10/2019	05/10/2019	05/10/2019	05/10/2019	04/10/2019
Date analysed	-	05/10/2019	05/10/2019	05/10/2019	05/10/2019	04/10/2019
TRH C_6 - C_9	µg/L	<10	<10	<10	<10	<10
TRH C_6 - C_{10}	µg/L	<10	<10	<10	<10	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1	<1
Total +ve Xylenes	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	104	106	107	106	104
Surrogate toluene-d8	%	111	111	111	112	104
Surrogate 4-BFB	%	92	91	94	92	91

vTRH(C6-C10)/BTEXN in Water		
Our Reference		18357-6
Your Reference	UNITS	CAG-CAT01-TB01
Date Sampled		02/10/2019
Type of sample		Water
Date extracted	-	04/10/2019
Date analysed	-	04/10/2019
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Total +ve Xylenes	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate toluene-d8	%	105
Surrogate 4-BFB	%	92

TRH Water(C10-C40) NEPM						
Our Reference		18357-1	18357-2	18357-3	18357-4	18357-5
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01	CAG-CAT01-RB01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Date analysed	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019	04/10/2019
TRH C_{10} - C_{14}	µg/L	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16}	µg/L	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50	<50	<50	<50	<50
TRH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	97	97	93	93	104

PAHs in Water - Low Level						
Our Reference		18357-1	18357-2	18357-3	18357-4	18357-5
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01	CAG-CAT01-RB01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Date analysed	-	05/10/2019	05/10/2019	05/10/2019	05/10/2019	05/10/2019
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j&k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	µg/L	NIL (+)VE PAH	NIL (+)VE PAH	NIL (+)VE PAH	NIL (+)VE PAH	NIL (+)VE PAH
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d_{14}	%	101	100	98	102	107

Ion Balance					
Our Reference		18357-1	18357-2	18357-3	18357-4
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water
Date prepared	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Date analysed	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Calcium - Dissolved	mg/L	52	67	76	50
Potassium - Dissolved	mg/L	1.3	1.6	1.8	1.3
Sodium - Dissolved	mg/L	120	140	160	120
Magnesium - Dissolved	mg/L	30	44	45	29
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	270	240	400	260
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	270	240	400	260
Sulphate, SO4	mg/L	64	58	62	86
Chloride, Cl	mg/L	120	250	120	140
Hardness	mgCaCO 3 /L	250	350	370	240
Ionic Balance	%	1.1	-0.46	6.2	-4.7

Miscellaneous Inorganics					
Our Reference		18357-1	18357-2	18357-3	18357-4
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water
Date prepared	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Date analysed	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019
pH	pH Units	8.0	7.9	8.0	8.0
Total Dissolved Solids (grav)	mg/L	560	810	760	540

Metals in water-dissolved					
Our Reference		18357-1	18357-2	18357-3	18357-4
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water
Date prepared	-	05/10/2019	05/10/2019	05/10/2019	05/10/2019
Date analysed	-	05/10/2019	05/10/2019	05/10/2019	05/10/2019
Aluminium-Dissolved	µg/L	430	<10	830	200
Antimony-Dissolved	µg/L	<1	<1	<1	<1
Arsenic-Dissolved	µg/L	2	<1	1	1
Beryllium-Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	1	<1	2	<1
Copper-Dissolved	µg/L	<1	<1	3	<1
Iron-Dissolved	µg/L	330	<10	640	120
Lead-Dissolved	µg/L	<1	<1	1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	1	<1	3	1
Selenium-Dissolved	µg/L	2	2	2	2
Silver-Dissolved	µg/L	<1	<1	<1	<1
Thallium-Dissolved	µg/L	<1	<1	<1	<1
Zinc-Dissolved	µg/L	4	3	9	6

All metals in water - total		
Our Reference		18357-5
Your Reference	UNITS	CAG-CAT01-RB01
Date Sampled		02/10/2019
Type of sample		Water
Date prepared	-	05/10/2019
Date analysed	-	05/10/2019
Aluminium-Total	µg/L	39
Antimony-Total	µg/L	<1
Arsenic-Total	µg/L	<1
Beryllium-Total	µg/L	<0.5
Cadmium-Total	µg/L	<0.1
Chromium-Total	µg/L	<1
Copper-Total	µg/L	<1
Iron-Total	µg/L	17
Lead-Total	µg/L	<1
Mercury-Total	µg/L	<0.05
Nickel-Total	µg/L	<1
Selenium-Total	µg/L	<1
Silver-Total	µg/L	<1
Thallium-Total	µg/L	<1
Zinc-Total	µg/L	1

PFAS in Waters Extended					
Our Reference		18357-1	18357-2	18357-3	18357-4
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water
Date prepared	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Date analysed	-	04/10/2019	04/10/2019	04/10/2019	04/10/2019
Perfluorobutanesulfonic acid	µg/L	0.11	0.16	0.38	0.10
Perfluoropentanesulfonic acid	µg/L	0.12	0.13	0.39	0.12
Perfluorohexanesulfonic acid PFHxS	µg/L	0.88	0.68	2.6	0.90
Perfluoroheptanesulfonic acid	µg/L	0.05	0.04	0.13	0.06
Perfluorooctanesulfonic acid PFOS	µg/L	1.1	0.79	2.2	1.1
Perfluorodecanesulfonic acid	µg/L	<0.02	<0.02	<0.02	<0.02
Perfluorobutanoic acid	µg/L	0.04	0.03	0.08	0.05
Perfluoropentanoic acid	µg/L	0.10	0.03	0.10	0.10
Perfluorohexanoic acid	µg/L	0.26	0.15	0.45	0.27
Perfluoroheptanoic acid	µg/L	0.04	0.02	0.08	0.04
Perfluorooctanoic acid PFOA	µg/L	0.07	0.04	0.13	0.07
Perfluorononanoic acid	µg/L	<0.01	<0.01	<0.01	<0.01
Perfluorodecanoic acid	µg/L	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid	µg/L	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid	µg/L	<0.05	<0.05	<0.05	<0.05
Perfluorotridecanoic acid	µg/L	<0.1	<0.1	<0.1	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5	<0.5	<0.5	<0.5
4:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01
10:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01
Perfluorooctane sulfonamide	µg/L	<0.1	<0.1	<0.1	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1	<0.1	<0.1	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05	<0.05	<0.05	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5	<0.5	<0.5	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02	<0.02	<0.02	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	105	101	99	98
Surrogate $^{13}C_2$ PFOA	%	92	102	90	90
Extracted ISTD $^{13}C_3$ *PFBS*	%	110	94	113	115
Extracted ISTD $^{18}O_2$ *PFHxS*	%	90	92	91	89
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	91	100	98
Extracted ISTD $^{13}C_4$ *PFBA*	%	82	79	76	76

PFAS in Waters Extended					
Our Reference		18357-1	18357-2	18357-3	18357-4
Your Reference	UNITS	CAG-CAT01-MW01	CAG-CAT01-MW02	CAG-CAT01-MW03	GW-FD01
Date Sampled		02/10/2019	02/10/2019	02/10/2019	02/10/2019
Type of sample		Water	Water	Water	Water
Extracted ISTD $^{13}C_3$ *PFPeA*	%	88	94	90	88
Extracted ISTD $^{13}C_2$ *PFHxA*	%	96	88	98	98
Extracted ISTD $^{13}C_4$ *PFHpA*	%	84	103	85	86
Extracted ISTD $^{13}C_4$ *PFOA*	%	93	85	98	94
Extracted ISTD $^{13}C_5$ *PFNA*	%	87	89	83	85
Extracted ISTD $^{13}C_2$ *PFDA*	%	86	92	89	83
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	82	95	82	81
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	77	93	82	78
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	65	77	60	58
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	120	92	129	129
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	117	86	129	123
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94	94	106	104
Extracted ISTD $^{13}C_8$ *FOSA*	%	89	102	96	89
Extracted ISTD d_3 *N MeFOSA*	%	88	100	86	86
Extracted ISTD d_5 *NEtFOSA*	%	80	100	76	76
Extracted ISTD d_7 *N MeFOSE*	%	83	100	89	81
Extracted ISTD d_9 *N EtFOSE*	%	86	92	87	85
Extracted ISTD d_3 *N MeFOSAA*	%	82	101	85	84
Extracted ISTD d_5 *N EtFOSAA*	%	93	96	92	81
Total Positive PFHxS & PFOS	µg/L	2.0	1.5	4.8	2.0
Total Positive PFOS & PFOA	µg/L	1.2	0.83	2.3	1.2
Total Positive PFAS	µg/L	2.8	2.1	6.5	2.8

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only as analysis outside of the APHA storage times.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10oC.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 10% ie total anions = total cations +/-10%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA 22nd ED, 4110-B. Water samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater 2013.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-035	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			05/10/2019	[NT]	[NT]	[NT]	[NT]	05/10/2019	[NT]
Date analysed	-			05/10/2019	[NT]	[NT]	[NT]	[NT]	05/10/2019	[NT]
TRH C_6 - C_9	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	98	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	95	[NT]
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	91	[NT]
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate Dibromofluoromethane	%		Org-016	102	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate toluene-d8	%		Org-016	110	[NT]	[NT]	[NT]	[NT]	110	[NT]
Surrogate 4-BFB	%		Org-016	93	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: TRH Water(C10-C40) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
Date analysed	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	81	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	81	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-003	92	[NT]	[NT]	[NT]	[NT]	84	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
Date analysed	-			05/10/2019	[NT]	[NT]	[NT]	[NT]	05/10/2019	[NT]
Naphthalene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	66	[NT]
Acenaphthylene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Acenaphthene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Phenanthrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Anthracene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Pyrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Benzo(b,j&k)fluoranthene	µg/L	0.2	Org-012	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-012	98	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Ion Balance					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
Date analysed	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	[NT]	[NT]	104	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	[NT]	[NT]	102	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	[NT]	[NT]	99	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	[NT]	[NT]	101	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	100	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Chloride, Cl	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Hardness	mgCaCO 3 /L	3		<3	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
Date analysed	-			04/10/2019	[NT]	[NT]	[NT]	[NT]	04/10/2019	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Metals in water-dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			05/10/2019	1	05/10/2019	05/10/2019		05/10/2019	[NT]
Date analysed	-			05/10/2019	1	05/10/2019	05/10/2019		05/10/2019	[NT]
Aluminium-Dissolved	µg/L	10	Metals-022 ICP-MS	<10	1	430	460	7	106	[NT]
Antimony-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	<1	<1	0	99	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	2	1	67	106	[NT]
Beryllium-Dissolved	µg/L	0.5	Metals-022 ICP-MS	<0.5	1	<0.5	<0.5	0	106	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	1	<0.1	<0.1	0	107	[NT]
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	1	1	0	107	[NT]
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	<1	<1	0	107	[NT]
Iron-Dissolved	µg/L	10	Metals-022 ICP-MS	<10	1	330	330	0	109	[NT]
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	<1	<1	0	104	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021 CV-AAS	<0.05	1	<0.05	<0.05	0	111	[NT]
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	1	1	0	107	[NT]
Selenium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	2	2	0	101	[NT]
Silver-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	<1	<1	0	99	[NT]
Thallium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	<1	<1	0	110	[NT]
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	1	4	4	0	115	[NT]

QUALITY CONTROL: All metals in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			05/10/2019	[NT]	[NT]	[NT]	[NT]	05/10/2019	[NT]
Date analysed	-			05/10/2019	[NT]	[NT]	[NT]	[NT]	05/10/2019	[NT]
Aluminium-Total	µg/L	10	Metals-022 ICP-MS	<10	[NT]	[NT]	[NT]	[NT]	111	[NT]
Antimony-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Arsenic-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Beryllium-Total	µg/L	0.5	Metals-022 ICP-MS	<0.5	[NT]	[NT]	[NT]	[NT]	99	[NT]
Cadmium-Total	µg/L	0.1	Metals-022 ICP-MS	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Chromium-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Copper-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Iron-Total	µg/L	10	Metals-022 ICP-MS	<10	[NT]	[NT]	[NT]	[NT]	107	[NT]
Lead-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Mercury-Total	µg/L	0.05	Metals-021 CV-AAS	<0.05	[NT]	[NT]	[NT]	[NT]	116	[NT]
Nickel-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Selenium-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Silver-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Thallium-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc-Total	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	111	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	104	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	117	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	<0.05	[NT]	[NT]	[NT]	[NT]	102	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	<0.5	[NT]	[NT]	[NT]	[NT]	107	[NT]
4:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	103	[NT]
6:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	102	[NT]
8:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	110	[NT]
10:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	<0.1	[NT]	[NT]	[NT]	[NT]	113	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	<0.05	[NT]	[NT]	[NT]	[NT]	104	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-035	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-035	<0.05	[NT]	[NT]	[NT]	[NT]	98	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-035	<0.5	[NT]	[NT]	[NT]	[NT]	102	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	115	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	119	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-035	97	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-035	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-035	118	[NT]	[NT]	[NT]	[NT]	112	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-035	99	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-035	105	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-035	91	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-035	92	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-035	101	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-035	86	[NT]	[NT]	[NT]	[NT]	83	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-035	96	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-035	93	[NT]	[NT]	[NT]	[NT]	88	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-035	95	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-035	98	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-035	89	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-035	83	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-035	109	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-035	108	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-035	107	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-035	88	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-035	88	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-035	81	[NT]	[NT]	[NT]	[NT]	77	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-035	94	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-035	94	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-035	88	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-035	97	[NT]	[NT]	[NT]	[NT]	93	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Report Comments

PFAS analysed by Envirolab Sydney, report number 227679.

For the determination of dissolved metals for samples 18357-2, the unpreserved sample was filtered through 0.45um filter at the lab due to the appearanceof colloids and/or sediment in the supplied HNO3 bottle (it appears the sample has not been field filtered).

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

DATA QUALITY ASSESSMENT SUMMARY

Report Details

Envirolab Report Reference	**18357**
Client ID	Meinhardt
Project Reference	CAG-25-27 Catalina-Env Assessment
Date Issued	08/10/2019

QC DATA

All laboratory QC data was within the Envirolab Group's specifications.

HOLDING TIME COMPLIANCE EVALUATION

All preservation / holding times (based on AS/ASPHA/ISO/NEPM/USEPA reference documents and standards) are compliant except:

Holding Time Exceedances

Analysis	Sample No	Date Sampled	Date Extracted	Date Analysed	Accepted
Miscellaneous Inorganics					
pH	18357-1	02/10/2019	04/10/2019	04/10/2019	*✓
pH	18357-2	02/10/2019	04/10/2019	04/10/2019	*✓
pH	18357-3	02/10/2019	04/10/2019	04/10/2019	*✓
pH	18357-4	02/10/2019	04/10/2019	04/10/2019	*✓

**Please note that the results for these tests are indicative only as analysis is outside the very short recommended technical holding times*

Certain analyses have had their recommended technical holding times elongated by filtering and/or freezing on receipt at the laboratory (e.g. BOD, chlorophyll/Pheophytin, nutrients and acid sulphate soil tests).

COMPLIANCE TO QC FREQUENCY (NEPM)

Internal laboratory QC rate complies with NEPM requirements (LCS/MB/MS 1 in 20, Duplicates 1 in 10 samples). Note, samples are batched together with other sample consignments in order to assign QC sample frequency.

QC Evaluation

Duplicate(s) was performed as per NEPM frequency	✓
Laboratory Control Sample(s) were analysed with the samples received	✓
A Method Blank was performed with the samples received	✓
Matrix spike(s) was performed as per NEPM frequency	✓

Refer to Certificate of Analysis for all Quality Control data.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM1915135**	Page	: 1 of 15
Amendment	: **1**		
Client	: **MEINHARDT INFR & ENVIRO P/L**	Laboratory	: Environmental Division Melbourne
Contact	: SID PALERI	Contact	: Peter Ravlic
Address	: LEVEL 12 501 SWANSTON ST MELBOURNE VIC, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: +61 03 86761200	Telephone	: +6138549 9645
Project	: 121544	Date Samples Received	: 12-Sep-2019 14:40
Order number	:	Date Analysis Commenced	: 13-Sep-2019
C-O-C number	: ----	Issue Date	: 18-Sep-2019 17:32
Sampler	: MG/SP		
Site	: ----		
Quote number	: EN/333 Secondary work only		
No. of samples received	: 7		
No. of samples analysed	: 7		

Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- This report has been amended to re-issue PFAS results. 18/9/19

Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)				Client sample ID	FS01	FS02	FS03	FS04	FS05
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00
Compound	CAS Number	LOR	Unit		EM1915135-001	EM1915135-002	EM1915135-003	EM1915135-004	EM1915135-005
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	**0.03**	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L		<0.02	**0.03**	**0.14**	**0.12**	<0.02
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	**0.02**	**0.41**	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	**0.02**	**0.04**	**0.02**	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	**0.03**	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)				Client sample ID	FS01	FS02	FS03	FS04	FS05
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00
Compound	CAS Number	LOR	Unit		EM1915135-001	EM1915135-002	EM1915135-003	EM1915135-004	EM1915135-005
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	**0.05**	**0.23**	**0.58**	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	**0.03**	**0.16**	**0.53**	<0.01
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	**0.05**	**0.23**	**0.58**	<0.01
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**112**	**107**	**114**	**112**	**115**
13C8-PFOA	----	0.02	%		**107**	**103**	**104**	**102**	**106**

Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)				Client sample ID	FS06	FS07	----	----	----
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EM1915135-006	EM1915135-007	--------	--------	--------
					Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)				Client sample ID	FS06	FS07	----	----	----
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EM1915135-006	EM1915135-007	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	<0.01	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**109**	**114**	----	----	----
13C8-PFOA	----	0.02	%		**108**	**114**	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	FS01	FS02	FS03	FS04	FS05
			Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00
Compound	CAS Number	LOR	Unit	EM1915135-001	EM1915135-002	EM1915135-003	EM1915135-004	EM1915135-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	14.8	16.6	10.2	9.7	17.6
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	6	6	6	11	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	33	27	43	28	28
Copper	7440-50-8	5	mg/kg	21	24	21	25	14
Lead	7439-92-1	5	mg/kg	15	11	23	28	13
Nickel	7440-02-0	2	mg/kg	16	14	17	31	11
Zinc	7440-66-6	5	mg/kg	24	31	29	26	44
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EN60: ASLP Leaching Procedure								
Initial pH	----	0.1	pH Unit	9.3	9.4	9.4	9.5	9.4
After HCl pH	----	0.1	pH Unit	1.7	1.6	1.8	1.8	1.6
Extraction Fluid pH	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
Final pH	----	0.1	pH Unit	5.3	4.9	5.7	5.4	5.0
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	FS01	FS02	FS03	FS04	FS05
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00
Compound	CAS Number	LOR	Unit		EM1915135-001	EM1915135-002	EM1915135-003	EM1915135-004	EM1915135-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	FS01	FS02	FS03	FS04	FS05
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00
Compound	CAS Number	LOR	Unit		EM1915135-001	EM1915135-002	EM1915135-003	EM1915135-004	EM1915135-005
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	**0.0185**	<0.0050
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.005	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	FS01	FS02	FS03	FS04	FS05
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00	09-Sep-2019 00:00
Compound	CAS Number	LOR	Unit		EM1915135-001	EM1915135-002	EM1915135-003	EM1915135-004	EM1915135-005
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	**0.0185**	<0.0050
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	**0.0185**	<0.0050
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		<0.0050	<0.0050	<0.0050	**0.0185**	<0.0050
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**86.9**	**90.7**	**69.9**	**80.2**	**80.8**
2-Chlorophenol-D4	93951-73-6	0.5	%		**84.2**	**91.1**	**78.8**	**85.2**	**85.2**
2.4.6-Tribromophenol	118-79-6	0.5	%		**57.3**	**60.3**	**50.6**	**62.3**	**52.6**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**77.7**	**84.0**	**80.4**	**88.1**	**86.6**
Anthracene-d10	1719-06-8	0.5	%		**84.7**	**114**	**130**	**128**	**81.5**
4-Terphenyl-d14	1718-51-0	0.5	%		**91.6**	**105**	**110**	**112**	**108**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**69.6**	**79.9**	**83.9**	**74.7**	**69.0**
Toluene-D8	2037-26-5	0.2	%		**69.4**	**79.8**	**79.8**	**68.5**	**77.3**
4-Bromofluorobenzene	460-00-4	0.2	%		**77.2**	**89.8**	**89.8**	**86.0**	**87.6**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**86.0**	**83.5**	**74.5**	**93.0**	**84.0**
13C8-PFOA	----	0.0002	%		**85.5**	**86.0**	**78.0**	**99.5**	**88.0**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	FS06	FS07	----	----	----
			Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EM1915135-006	EM1915135-007	--------	--------	--------
				Result	Result	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**19.2**	**13.7**	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	**18**	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg	**19**	**42**	----	----	----
Copper	7440-50-8	5	mg/kg	**10**	**18**	----	----	----
Lead	7439-92-1	5	mg/kg	**10**	**25**	----	----	----
Nickel	7440-02-0	2	mg/kg	**8**	**16**	----	----	----
Zinc	7440-66-6	5	mg/kg	**28**	**25**	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	----	----
EN60: ASLP Leaching Procedure								
Initial pH	----	0.1	pH Unit	**9.6**	**9.0**	----	----	----
After HCl pH	----	0.1	pH Unit	**1.8**	**1.8**	----	----	----
Extraction Fluid pH	----	0.1	pH Unit	**4.9**	**4.9**	----	----	----
Final pH	----	0.1	pH Unit	**5.0**	**4.9**	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	FS06	FS07	----	----	----
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EM1915135-006	EM1915135-007	--------	--------	--------
					Result	Result	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	----	----	----
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	----	----	----
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg		<50	<50	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	----	----	----
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	----	----	----
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0050	<0.0050	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	FS06	FS07	----	----	----
				Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EM1915135-006	EM1915135-007	--------	--------	--------
					Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.005	<0.005	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0050	<0.0050	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0050	<0.0050	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0050	<0.0050	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0050	<0.0050	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0050	<0.0050	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0050	<0.0050	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0050	<0.0050	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	FS06	FS07	----	----	----
			Client sampling date / time	09-Sep-2019 00:00	09-Sep-2019 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EM1915135-006	EM1915135-007	--------	--------	--------
				Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0050	<0.0050	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0050	<0.0050	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0050	<0.0050	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0050	<0.0050	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0050	<0.0050	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	<0.0050	<0.0050	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0050	<0.0050	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0050	<0.0050	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**87.8**	**80.9**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	**90.6**	**84.8**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	**52.4**	**53.8**	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**92.5**	**87.7**	----	----	----
Anthracene-d10	1719-06-8	0.5	%	**115**	**130**	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	**111**	**116**	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**70.2**	**75.1**	----	----	----
Toluene-D8	2037-26-5	0.2	%	**64.9**	**71.2**	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**79.8**	**84.2**	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	**89.5**	**84.0**	----	----	----
13C8-PFOA	----	0.0002	%	**93.0**	**84.5**	----	----	----

Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	54	125
2-Chlorophenol-D4	93951-73-6	65	123
2.4.6-Tribromophenol	118-79-6	34	122
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	61	125
Anthracene-d10	1719-06-8	62	130
4-Terphenyl-d14	1718-51-0	67	133
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	51	125
Toluene-D8	2037-26-5	55	125
4-Bromofluorobenzene	460-00-4	56	124
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM1915135**	Page	: 1 of 13
Amendment	: **1**		
Client	: **MEINHARDT INFR & ENVIRO P/L**	Laboratory	: Environmental Division Melbourne
Contact	: SID PALERI	Contact	: Peter Ravlic
Address	: LEVEL 12 501 SWANSTON ST MELBOURNE VIC, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: +61 03 86761200	Telephone	: +6138549 9645
Project	: 121544	Date Samples Received	: 12-Sep-2019
Order number	:	Date Analysis Commenced	: 13-Sep-2019
C-O-C number	: ----	Issue Date	: 18-Sep-2019
Sampler	: MG/SP		
Site	: ----		
Quote number	: EN/333 Secondary work only		
No. of samples received	: 7		
No. of samples analysed	: 7		

Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 2582020)									
EM1915135-001	FS01	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	33	33	0.00	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	16	16	0.00	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	6	6	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	21	22	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	15	15	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	24	24	0.00	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 2582673)									
EM1915135-001	FS01	EA055: Moisture Content	----	0.1	%	14.8	15.1	2.17	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 2582019)									
EM1915135-001	FS01	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 2581863)									
EM1915135-001	FS01	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 2581863) - continued									
EM1915135-001	FS01	EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 2581811)									
EM1915135-001	FS01	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 2581864)									
EM1915135-001	FS01	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 2581811)									
EM1915135-001	FS01	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 2581864)									
EM1915135-001	FS01	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080: BTEXN (QC Lot: 2581811)									
EM1915135-001	FS01	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 2583054)									
EM1915074-020	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0005	0.0005	0.00	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0034	0.0036	5.25	0% - 50%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
EM1915135-004	FS04	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0185	0.0198	6.64	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 2583054) - continued									
EM1915135-004	FS04	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 2583054)									
EM1915074-020	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0002	0.0003	0.00	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.00	No Limit
EM1915135-004	FS04	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.005	<0.005	0.00	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 2583054)									
EM1915074-020	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
EM1915135-004	FS04	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 2583054) - continued									
EM1915135-004	FS04	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 2583054)									
EM1915074-020	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.00	No Limit
EM1915135-004	FS04	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0050	<0.0050	0.00	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 2588021)									
EM1915135-001	FS01	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.00	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.00	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 2588021)									
EM1915135-001	FS01	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.00	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 2588021) - continued									
EM1915135-001	FS01	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.00	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 2588021)									
EM1915135-001	FS01	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.00	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 2588021)									
EM1915135-001	FS01	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.00	No Limit
EP231P: PFAS Sums (QC Lot: 2588021)									
EM1915135-001	FS01	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 2582020)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	92.1	79	107
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	84.7	76	108
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	101	78	110
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	93.8	78	108
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	92.9	78	106
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	94.7	80	109
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	95.4	79	110
EG035T: Total Recoverable Mercury by FIMS (QCLot: 2582019)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	87.9	77	110
EN60: ASLP Leaching Procedure (QCLot: 2584977)								
EN60a: Final pH	----	0.1	pH Unit	1.0	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 2581863)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	103	85	128
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	97.9	77	127
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	98.4	85	128
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	96.0	82	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	99.4	85	133
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	99.9	89	136
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	104	83	136
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	109	85	140
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	96.4	81	130
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	116	85	141
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	75.3	69	120
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	112	80	132
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	90.5	67	120
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	83.0	66	126
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	84.8	65	127
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	83.1	68	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2581811)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	66.7	61	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2581864)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	688 mg/kg	102	72	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	3100 mg/kg	95.1	84	125

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2581864) - continued								
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1490 mg/kg	93.4	78	119
EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2581811)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	65.8	60	125
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2581864)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1050 mg/kg	96.2	72	128
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3960 mg/kg	96.1	82	122
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	280 mg/kg	103	55	131
EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN (QCLot: 2581811)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	78.6	63	119
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	75.8	67	126
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	77.2	66	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	76.9	68	128
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	82.3	73	128
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	88.7	61	123
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2583054)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	69.2	57	121
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	68.4	55	125
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	66.0	52	126
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	75.6	54	123
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	73.2	55	127
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	72.4	54	125
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2583054)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	58.7	52	128
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	70.0	54	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	74.8	58	127
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	73.6	57	128
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	76.0	60	134
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	72.4	63	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	70.4	55	130
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.2	62	130
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.0	53	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	80.8	49	129
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	67.3	59	129
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2583054)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	71.6	52	132

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2583054) - continued								
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	77.1	65	126
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	74.0	64	126
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	68.9	63	124
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	72.3	58	125
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	75.6	61	130
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	80.4	55	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 2583054)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	77.2	54	130
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	76.4	61	130
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	77.6	62	130
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	78.0	60	130

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2588021)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.5 µg/L	98.2	70.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.5 µg/L	92.2	70.0	130
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L	<0.02	0.5 µg/L	123	70.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.5 µg/L	105	70.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.5 µg/L	102	70.0	130
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.5 µg/L	103	70.0	130
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2588021)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	2.5 µg/L	103	70.0	130
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.5 µg/L	92.8	70.0	130
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.5 µg/L	119	70.0	130
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.5 µg/L	106	70.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.5 µg/L	112	70.0	130
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.5 µg/L	105	70.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.5 µg/L	110	70.0	130
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.5 µg/L	110	70.0	130
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.5 µg/L	114	70.0	130
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.5 µg/L	118	70.0	130
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	1.25 µg/L	90.6	70.0	150
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2588021)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2588021) - continued								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.5 µg/L	101	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	1.25 µg/L	100	70.0	150
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	1.25 µg/L	105	70.0	150
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	1.25 µg/L	102	70.0	150
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	1.25 µg/L	112	70.0	150
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.5 µg/L	122	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.5 µg/L	103	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 2588021)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.5 µg/L	99.2	70.0	130
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.5 µg/L	104	70.0	130
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.5 µg/L	112	70.0	130
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.5 µg/L	123	70.0	130

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 2582020)							
EM1915135-001	FS01	EG005T: Arsenic	7440-38-2	50 mg/kg	91.6	78	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.5	84	116
		EG005T: Chromium	7440-47-3	50 mg/kg	103	79	121
		EG005T: Copper	7440-50-8	50 mg/kg	97.1	82	124
		EG005T: Lead	7439-92-1	50 mg/kg	93.6	76	124
		EG005T: Nickel	7440-02-0	50 mg/kg	92.4	78	120
		EG005T: Zinc	7440-66-6	50 mg/kg	96.0	74	128
EG035T: Total Recoverable Mercury by FIMS (QCLot: 2582019)							
EM1915135-001	FS01	EG035T: Mercury	7439-97-6	0.5 mg/kg	98.3	76	116
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 2581863)							
EM1915135-003	FS03	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	99.9	67	117
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	107	52	148
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2581811)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2581811) - continued							
EM1915135-002	FS02	EP080: C6 - C9 Fraction	----	28 mg/kg	88.3	42	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2581864)							
EM1915135-002	FS02	EP071: C10 - C14 Fraction	----	688 mg/kg	99.9	53	123
		EP071: C15 - C28 Fraction	----	3100 mg/kg	92.8	70	124
		EP071: C29 - C36 Fraction	----	1490 mg/kg	90.8	64	118
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2581811)							
EM1915135-002	FS02	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	83.0	39	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2581864)							
EM1915135-002	FS02	EP071: >C10 - C16 Fraction	----	1050 mg/kg	94.1	65	123
		EP071: >C16 - C34 Fraction	----	3960 mg/kg	93.7	67	121
		EP071: >C34 - C40 Fraction	----	280 mg/kg	101	44	126
EP080: BTEXN (QCLot: 2581811)							
EM1915135-002	FS02	EP080: Benzene	71-43-2	2 mg/kg	118	50	136
		EP080: Toluene	108-88-3	2 mg/kg	121	56	139
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2583054)							
EM1915074-020	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	82.0	50	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	68.0	50	130
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	72.8	50	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	92.8	50	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	95.2	50	130
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	71.2	50	130
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2583054)							
EM1915074-020	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	58.1	30	130
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	78.0	50	130
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	79.6	50	130
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	75.6	50	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	83.2	50	130
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	76.0	50	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	79.2	50	130
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	73.2	50	130
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	76.8	50	130
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	76.4	30	130
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	71.8	30	130
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2583054)							
EM1915074-020	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	80.4	50	130
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	85.7	30	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2583054) - continued							
EM1915074-020	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	79.0	30	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	74.5	30	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	81.9	30	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	76.0	30	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	89.2	30	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 2583054)							
EM1915074-020	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	74.8	50	130
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	84.0	50	130
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	78.8	50	130
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	124	50	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2588021)							
EM1915135-001	FS01	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.5 µg/L	106	50.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.5 µg/L	95.0	50.0	130
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.5 µg/L	118	50.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.5 µg/L	116	50.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.5 µg/L	110	50.0	130
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.5 µg/L	107	50.0	130
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2588021)							
EM1915135-001	FS01	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	2.5 µg/L	71.9	50.0	130
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.5 µg/L	83.2	50.0	130
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 µg/L	116	50.0	130
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 µg/L	108	50.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.5 µg/L	118	50.0	130
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.5 µg/L	115	50.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.5 µg/L	119	50.0	130
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.5 µg/L	116	50.0	130
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.5 µg/L	120	50.0	130
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.5 µg/L	88.6	50.0	130
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.25 µg/L	57.9	50.0	150
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2588021)							
EM1915135-001	FS01	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.5 µg/L	114	50.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2588021) - continued							
EM1915135-001	FS01	EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	1.25 µg/L	85.4	50.0	150
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	1.25 µg/L	98.0	50.0	150
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	1.25 µg/L	88.1	50.0	150
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	1.25 µg/L	114	50.0	150
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.5 µg/L	117	50.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.5 µg/L	126	50.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 2588021)							
EM1915135-001	FS01	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.5 µg/L	99.8	50.0	130
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.5 µg/L	118	50.0	130
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.5 µg/L	118	50.0	130
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.5 µg/L	115	50.0	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM1915135**	Page	: 1 of 8
Amendment	: **1**		
Client	: **MEINHARDT INFR & ENVIRO P/L**	Laboratory	: Environmental Division Melbourne
Contact	: SID PALERI	Telephone	: +6138549 9645
Project	: 121544	Date Samples Received	: 12-Sep-2019
Site	: ----	Issue Date	: 18-Sep-2019
Sampler	: MG/SP	No. of samples received	: 7
Order number	:	No. of samples analysed	: 7

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**----**	----	----	**13-Sep-2019**	23-Sep-2019	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**13-Sep-2019**	07-Mar-2020	✓	**13-Sep-2019**	07-Mar-2020	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**13-Sep-2019**	07-Oct-2019	✓	**14-Sep-2019**	07-Oct-2019	✓
EN60: ASLP Leaching Procedure							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**16-Sep-2019**	07-Mar-2020	✓	**----**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**13-Sep-2019**	23-Sep-2019	✓	**13-Sep-2019**	23-Oct-2019	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**13-Sep-2019**	23-Sep-2019	✓	**13-Sep-2019**	23-Sep-2019	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**13-Sep-2019**	23-Sep-2019	✓	**13-Sep-2019**	23-Sep-2019	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**13-Sep-2019**	23-Sep-2019	✓	**13-Sep-2019**	23-Sep-2019	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**16-Sep-2019**	07-Mar-2020	✓	**16-Sep-2019**	26-Oct-2019	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**16-Sep-2019**	07-Mar-2020	✓	**16-Sep-2019**	26-Oct-2019	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**16-Sep-2019**	07-Mar-2020	✓	**16-Sep-2019**	26-Oct-2019	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**16-Sep-2019**	07-Mar-2020	✓	**16-Sep-2019**	26-Oct-2019	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**09-Sep-2019**	**16-Sep-2019**	07-Mar-2020	✓	**16-Sep-2019**	26-Oct-2019	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**16-Sep-2019**	**17-Sep-2019**	14-Mar-2020	✓	**17-Sep-2019**	14-Mar-2020	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**16-Sep-2019**	**17-Sep-2019**	14-Mar-2020	✓	**17-Sep-2019**	14-Mar-2020	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**16-Sep-2019**	**17-Sep-2019**	14-Mar-2020	✓	**17-Sep-2019**	14-Mar-2020	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**16-Sep-2019**	**17-Sep-2019**	14-Mar-2020	✓	**17-Sep-2019**	14-Mar-2020	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
FS01, FS02, FS03, FS04, FS05, FS06, FS07	**16-Sep-2019**	**17-Sep-2019**	14-Mar-2020	✓	**17-Sep-2019**	14-Mar-2020	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	1	7	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	7	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
ASLP for Non & Semivolatile Analytes	EN60a	1	11	**9.09**	**9.09**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Control Samples (LCS) - Continued							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM amended 2013.
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270D. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260B. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM amended 2013.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In house: Direct injection analysis of fresh waters after dilution (1:1) with methanol. Analysis by LC-Electrospray-MS-MS, Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. This method complies with the quality control definitions as stated in QSM 5.1. Data is reviewed in line with the DQOs as stated in QSM5.1

Preparation Methods	Method	Matrix	Method Descriptions
ASLP for Non & Semivolatile Analytes	EN60a	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202)
Preparation for PFAS in water.	EP231-PR	SOIL	Method presumes direct injection without workup. Preparation includes addition of internal standard and surrogate, and filtration prior to anaylsis.

Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	11/9/19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page 9 of 10

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	NSW DECC Waste Classification: Table 1 (Less phthalates and Fluoride)	PFAS Extended Suite	Leachable PFAS	TRH, BTEXN, PAH, Metals	Asbestos Absence/Presence	NEPM EIL (Soil Classification)	HOLD			Cr-Cu/BTEXN	COMMENTS
1	FS01	9.9.19			Soil	ESKY	ICE		x	x	x							
2	FD02	↓			↓	ESKY	ICE		x	x	x							
3	FS02	↓				ESKY	ICE		x	x	x							PFAS In Soil LoR to be 0.005mg/kg
4	FD03	10.9.19				ESKY	ICE		x	x	x	x						
5	FS03	↓				ESKY	ICE		x	x	x	x						Please send FS01 – FS07 to ALS for Analysis Sporopore
6	FD04	↓				ESKY	ICE		x	x	x							
7	FS04	↓				ESKY	ICE		x	x	x							
8	FD05	↓				ESKY	ICE		x	x	x							
9	FS05	↓				ESKY	ICE		x	x	x							
10	FD06	11.9.19				ESKY	ICE		x	x	x							
11	FS06	↓				ESKY	ICE		x	x	x							
12	FD07	↓				ESKY	ICE		x	x	x							
13	FS07	↓				ESKY	ICE		x	x	x							
14	CAG-CAT01-TB01	↓			4	ESKY	ICE										x	
15	~~CAG-CAT01-TB02~~					ESKY	ICE										~~x~~	

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

Matrix S= W=

Environmental Division
Melbourne
Work Order Reference
EM1915135

Telephone : +61-3-8549 9600

NOTES:

- Metals includes full suite required by NSW DECC
- PFAS In Soil LoR to be 0.005mg/kg
- Metals includes As, Cd, Cr, Cu, Ni, Pb, Zn and Hg

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	M.GIBBS		11/9/19	15.00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY	COSD		12/9/19	12.40

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM1916583**	Page	: 1 of 8
Client	: **MEINHARDT INFR & ENVIRO P/L**	Laboratory	: Environmental Division Melbourne
Contact	: SID PALERI	Contact	: Peter Ravlic
Address	: LEVEL 12 501 SWANSTON ST MELBOURNE VIC, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: +61 03 86761200	Telephone	: +6138549 9645
Project	: 121544	Date Samples Received	: 04-Oct-2019 15:25
Order number	: ----	Date Analysis Commenced	: 07-Oct-2019
C-O-C number	: ----	Issue Date	: 10-Oct-2019 12:39
Sampler	: MATTHEW GIBBS, SID PALERI		
Site	: CAG-25-27 Catalina-Env Assessment		
Quote number	: EN/333 Secondary work only		
No. of samples received	: 1		
No. of samples analysed	: 1		

ilac-MRA NATA
Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- EA015H: EM1916583 #1: TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- Ionic balances were calculated using: major anions - chloride, alkalinity and sulfate; and major cations - calcium, magnesium, potassium and sodium.
- ED045G: The presence of thiocyanate can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	GW-FS01	----	----	----	----
			Client sampling date / time	02-Oct-2019 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EM1916583-001	--------	--------	--------	--------
				Result	----	----	----	----
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	**7.97**	----	----	----	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	**745**	----	----	----	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	----	----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	----	----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	**278**	----	----	----	----
Total Alkalinity as CaCO3	----	1	mg/L	**278**	----	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	**71**	----	----	----	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	**140**	----	----	----	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	**54**	----	----	----	----
Magnesium	7439-95-4	1	mg/L	**30**	----	----	----	----
Sodium	7440-23-5	1	mg/L	**116**	----	----	----	----
Potassium	7440-09-7	1	mg/L	**2**	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	----	----	----	----
Barium	7440-39-3	0.001	mg/L	**0.021**	----	----	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Manganese	7439-96-5	0.001	mg/L	**0.039**	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Selenium	7782-49-2	0.01	mg/L	<0.01	----	----	----	----
Vanadium	7440-62-2	0.01	mg/L	<0.01	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	GW-FS01	----	----	----	----
			Client sampling date / time	02-Oct-2019 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EM1916583-001	--------	--------	--------	--------
				Result	----	----	----	----
EN055: Ionic Balance								
ø **Total Anions**	----	0.01	meq/L	**11.0**	----	----	----	----
ø **Total Cations**	----	0.01	meq/L	**10.3**	----	----	----	----
ø **Ionic Balance**	----	0.01	%	**3.40**	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	<1.0	----	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	----	----	----	----
Acenaphthene	83-32-9	1.0	µg/L	<1.0	----	----	----	----
Fluorene	86-73-7	1.0	µg/L	<1.0	----	----	----	----
Phenanthrene	85-01-8	1.0	µg/L	<1.0	----	----	----	----
Anthracene	120-12-7	1.0	µg/L	<1.0	----	----	----	----
Fluoranthene	206-44-0	1.0	µg/L	<1.0	----	----	----	----
Pyrene	129-00-0	1.0	µg/L	<1.0	----	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	----	----	----	----
Chrysene	218-01-9	1.0	µg/L	<1.0	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	----	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	----	----	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	µg/L	<0.5	----	----	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	µg/L	<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	----	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L	<20	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GW-FS01	----	----	----	----
				Client sampling date / time	02-Oct-2019 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EM1916583-001	--------	--------	--------	--------
					Result	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C34 - C40 Fraction	----	100	µg/L		<100	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	----	----	----	----
Toluene	108-88-3	2	µg/L		<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L		<2	----	----	----	----
^ **Total Xylenes**	----	2	µg/L		<2	----	----	----	----
^ **Sum of BTEX**	----	1	µg/L		<1	----	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.12**	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		**0.11**	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L		**0.68**	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.04**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**1.20**	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.11**	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		**0.24**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.04**	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.07**	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GW-FS01	----	----	----	----
				Client sampling date / time	02-Oct-2019 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EM1916583-001	--------	--------	--------	--------
					Result	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**2.61**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GW-FS01	----	----	----	----
				Client sampling date / time	02-Oct-2019 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EM1916583-001	--------	--------	--------	--------
					Result	----	----	----	----
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		1.88	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		2.46	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		20.9	----	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		57.4	----	----	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%		61.9	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		61.0	----	----	----	----
Anthracene-d10	1719-06-8	1.0	%		84.8	----	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		103	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		75.1	----	----	----	----
Toluene-D8	2037-26-5	2	%		87.2	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		100	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		102	----	----	----	----
13C8-PFOA	----	0.02	%		112	----	----	----	----

Surrogate Control Limits

Sub-Matrix: **WATER**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	46
2-Chlorophenol-D4	93951-73-6	23	104
2.4.6-Tribromophenol	118-79-6	28	130
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	36	114
Anthracene-d10	1719-06-8	51	119
4-Terphenyl-d14	1718-51-0	49	127
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	129
Toluene-D8	2037-26-5	70	125
4-Bromofluorobenzene	460-00-4	71	129
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM1916583**	Page	: 1 of 10
Client	: **MEINHARDT INFR & ENVIRO P/L**	Laboratory	: Environmental Division Melbourne
Contact	: SID PALERI	Contact	: Peter Ravlic
Address	: LEVEL 12 501 SWANSTON ST MELBOURNE VIC, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: +61 03 86761200	Telephone	: +6138549 9645
Project	: 121544	Date Samples Received	: 04-Oct-2019
Order number	: ----	Date Analysis Commenced	: 07-Oct-2019
C-O-C number	: ----	Issue Date	: 10-Oct-2019
Sampler	: MATTHEW GIBBS, SID PALERI		
Site	: CAG-25-27 Catalina-Env Assessment		
Quote number	: EN/333 Secondary work only		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA005P: pH by PC Titrator (QC Lot: 2626003)									
EM1916522-002	Anonymous	EA005-P: pH Value	----	0.01	pH Unit	7.23	7.23	0.00	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 2628438)									
EM1916583-001	GW-FS01	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	745	781	4.72	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 2626005)									
EM1916608-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.00	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.00	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	128	129	0.825	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	128	129	0.825	0% - 20%
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 2625840)									
EM1916486-005	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	38	38	0.00	0% - 20%
EM1916587-003	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1190	1200	0.897	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 2625839)									
EM1916373-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	31	33	5.45	0% - 20%
EM1916587-003	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	6860	7220	5.08	0% - 20%
ED093F: Dissolved Major Cations (QC Lot: 2624992)									
EM1916546-011	Anonymous	ED093F: Calcium	7440-70-2	1	mg/L	12	11	0.00	0% - 50%
		ED093F: Magnesium	7439-95-4	1	mg/L	248	246	0.881	0% - 20%
		ED093F: Sodium	7440-23-5	1	mg/L	2870	2850	0.537	0% - 20%
		ED093F: Potassium	7440-09-7	1	mg/L	119	119	0.00	0% - 20%
EG020F: Dissolved Metals by ICP-MS (QC Lot: 2624989)									
EM1916522-002	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Barium	7440-39-3	0.001	mg/L	0.010	0.009	12.5	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EG020F: Dissolved Metals by ICP-MS (QC Lot: 2624989) - continued									
EM1916522-002	Anonymous	EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Cobalt	7440-48-4	0.001	mg/L	0.004	0.004	0.00	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.002	0.002	0.00	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Manganese	7439-96-5	0.001	mg/L	0.149	0.136	9.16	0% - 20%
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.006	0.006	0.00	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.018	0.017	0.00	No Limit
		EG020A-F: Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	0.00	No Limit
		EG020A-F: Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	0.00	No Limit
		EG020A-F: Boron	7440-42-8	0.05	mg/L	1.41	1.25	12.4	0% - 20%
EM1916544-004	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Barium	7440-39-3	0.001	mg/L	0.173	0.173	0.00	0% - 20%
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Cobalt	7440-48-4	0.001	mg/L	0.020	0.020	0.00	0% - 20%
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.006	0.007	0.00	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Manganese	7439-96-5	0.001	mg/L	0.204	0.208	1.84	0% - 20%
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.029	0.029	0.00	0% - 20%
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.027	0.028	0.00	No Limit
		EG020A-F: Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	0.00	No Limit
		EG020A-F: Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	0.00	No Limit
		EG020A-F: Boron	7440-42-8	0.05	mg/L	0.12	0.11	0.00	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 2624991)									
EM1916541-004	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 2624923)									
EM1916583-001	GW-FS01	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.00	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 2624923) - continued									
EM1916583-001	GW-FS01	EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 2624924)									
EM1916583-001	GW-FS01	EP071: C15 - C28 Fraction	----	100	µg/L	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	µg/L	<50	<50	0.00	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	<50	<50	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 2625182)									
EM1916600-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	410	420	2.88	0% - 20%
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 2624924)									
EM1916583-001	GW-FS01	EP071: >C10 - C16 Fraction	----	100	µg/L	<100	<100	0.00	No Limit
		EP071: >C16 - C34 Fraction	----	100	µg/L	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 2625182)									
EM1916600-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	470	490	3.88	0% - 20%
EP080: BTEXN (QC Lot: 2625182)									
EM1916600-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	106	105	1.62	0% - 20%
		EP080: Toluene	108-88-3	2	µg/L	23	23	0.00	0% - 50%
		EP080: Ethylbenzene	100-41-4	2	µg/L	34	33	0.00	0% - 50%
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	24	23	0.00	0% - 50%
		EP080: ortho-Xylene	95-47-6	2	µg/L	26	26	0.00	0% - 50%
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.00	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 2627226)									
EM1916495-007	Anonymous	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.00	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.00	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 2627226)									
EM1916495-007	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.00	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.00	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 2627226) - continued									
EM1916495-007	Anonymous	EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.00	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 2627226)									
EM1916495-007	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.00	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 2627226)									
EM1916495-007	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.00	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.00	No Limit
EP231P: PFAS Sums (QC Lot: 2627226)									
EM1916495-007	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 2628438)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	100	93.7	107
				<10	293 mg/L	103	90.0	110
ED037P: Alkalinity by PC Titrator (QCLot: 2626005)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	105	88.0	112
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 2625840)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	99.9	85.8	117
				<1	100 mg/L	100	85.8	117
ED045G: Chloride by Discrete Analyser (QCLot: 2625839)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	102	85.0	122
				<1	1000 mg/L	103	85.0	122
ED093F: Dissolved Major Cations (QCLot: 2624992)								
ED093F: Calcium	7440-70-2	1	mg/L	<1	5 mg/L	107	88.2	117
ED093F: Magnesium	7439-95-4	1	mg/L	<1	5 mg/L	99.2	85.6	114
ED093F: Sodium	7440-23-5	1	mg/L	<1	50 mg/L	103	90.0	114
ED093F: Potassium	7440-09-7	1	mg/L	<1	50 mg/L	98.2	86.7	111
EG020F: Dissolved Metals by ICP-MS (QCLot: 2624989)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	98.2	88.5	108
EG020A-F: Beryllium	7440-41-7	0.001	mg/L	<0.001	0.1 mg/L	94.1	81.6	109
EG020A-F: Barium	7440-39-3	0.001	mg/L	<0.001	0.1 mg/L	92.0	83.6	109
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	95.4	83.5	108
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	89.9	83.2	105
EG020A-F: Cobalt	7440-48-4	0.001	mg/L	<0.001	0.1 mg/L	91.8	84.3	108
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	89.1	83.1	106
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	93.1	84.6	107
EG020A-F: Manganese	7439-96-5	0.001	mg/L	<0.001	0.1 mg/L	91.3	84.8	107
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	92.6	84.3	108
EG020A-F: Selenium	7782-49-2	0.01	mg/L	<0.01	0.1 mg/L	91.5	82.3	110
EG020A-F: Vanadium	7440-62-2	0.01	mg/L	<0.01	0.1 mg/L	92.4	83.7	106
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	94.1	86.3	111
EG020A-F: Boron	7440-42-8	0.05	mg/L	<0.05	0.5 mg/L	96.4	85.4	113
EG035F: Dissolved Mercury by FIMS (QCLot: 2624991)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	102	71.1	112
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 2624923)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	5 µg/L	79.7	41.1	116

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 2624923) - continued								
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	5 µg/L	78.6	47.2	121
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	5 µg/L	85.4	47.3	118
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	5 µg/L	87.9	49.4	121
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	5 µg/L	103	52.5	124
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	5 µg/L	96.8	52.3	125
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	5 µg/L	97.0	52.4	127
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	5 µg/L	116	51.3	130
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	5 µg/L	95.2	50.0	130
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	5 µg/L	96.4	49.6	131
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	5 µg/L	80.3	51.5	132
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	5 µg/L	101	54.0	131
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	5 µg/L	91.4	52.3	133
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	5 µg/L	88.6	50.4	127
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	5 µg/L	86.5	50.0	127
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	5 µg/L	86.5	50.8	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2624924)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	3330 µg/L	110	44.8	125
EP071: C15 - C28 Fraction	----	100	µg/L	<100	16500 µg/L	98.8	51.3	135
EP071: C29 - C36 Fraction	----	50	µg/L	<50	7800 µg/L	95.2	49.4	134
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2625182)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	360 µg/L	102	65.5	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2624924)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	5690 µg/L	98.2	47.3	129
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	20700 µg/L	97.4	50.4	133
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	1510 µg/L	98.2	45.2	136
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2625182)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	450 µg/L	99.7	64.3	126
EP080: BTEXN (QCLot: 2625182)								
EP080: Benzene	71-43-2	1	µg/L	<1	20 µg/L	100	69.8	124
EP080: Toluene	108-88-3	2	µg/L	<2	20 µg/L	103	73.6	126
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	20 µg/L	102	72.0	126
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	40 µg/L	107	71.5	132
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	20 µg/L	109	76.5	132
EP080: Naphthalene	91-20-3	5	µg/L	<5	5 µg/L	98.7	70.5	127
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2627226)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.5 µg/L	98.8	70.0	130

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2627226) - continued								
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.5 µg/L	98.0	70.0	130
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	µg/L	<0.02	0.5 µg/L	94.4	70.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.5 µg/L	98.8	70.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.5 µg/L	98.8	70.0	130
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.5 µg/L	100	70.0	130
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2627226)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	2.5 µg/L	98.4	70.0	130
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.5 µg/L	103	70.0	130
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.5 µg/L	104	70.0	130
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.5 µg/L	102	70.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.5 µg/L	98.8	70.0	130
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.5 µg/L	92.8	70.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.5 µg/L	91.8	70.0	130
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.5 µg/L	92.4	70.0	130
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.5 µg/L	119	70.0	130
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.5 µg/L	128	70.0	130
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	1.25 µg/L	78.9	70.0	150
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2627226)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.5 µg/L	100	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	1.25 µg/L	114	70.0	150
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	1.25 µg/L	124	70.0	150
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	1.25 µg/L	93.8	70.0	150
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	1.25 µg/L	96.2	70.0	150
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.5 µg/L	96.6	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.5 µg/L	97.2	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 2627226)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.5 µg/L	95.4	70.0	130
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.5 µg/L	93.8	70.0	130
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.5 µg/L	92.8	70.0	130
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.5 µg/L	123	70.0	130

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 2625840)							
EM1916486-006	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	100 mg/L	92.4	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 2625839)							
EM1916373-002	Anonymous	ED045G: Chloride	16887-00-6	400 mg/L	112	70.0	130
EG020F: Dissolved Metals by ICP-MS (QCLot: 2624989)							
EM1916522-002	Anonymous	EG020A-F: Arsenic	7440-38-2	0.2 mg/L	107	85.0	131
		EG020A-F: Beryllium	7440-41-7	0.2 mg/L	105	73.0	141
		EG020A-F: Barium	7440-39-3	0.2 mg/L	99.6	75.0	127
		EG020A-F: Cadmium	7440-43-9	0.05 mg/L	97.7	81.0	133
		EG020A-F: Chromium	7440-47-3	0.2 mg/L	97.4	71.0	135
		EG020A-F: Cobalt	7440-48-4	0.2 mg/L	100	78.0	132
		EG020A-F: Copper	7440-50-8	0.2 mg/L	94.6	76.0	130
		EG020A-F: Lead	7439-92-1	0.2 mg/L	92.2	75.0	133
		EG020A-F: Manganese	7439-96-5	0.2 mg/L	89.3	64.0	134
		EG020A-F: Nickel	7440-02-0	0.2 mg/L	96.5	73.0	131
		EG020A-F: Vanadium	7440-62-2	0.2 mg/L	99.3	73.0	131
		EG020A-F: Zinc	7440-66-6	0.2 mg/L	95.8	75.0	131
EG035F: Dissolved Mercury by FIMS (QCLot: 2624991)							
EM1916541-005	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	99.0	70.0	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 2625182)							
EM1916583-001	GW-FS01	EP080: C6 - C9 Fraction	----	280 µg/L	80.6	43.0	125
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 2625182)							
EM1916583-001	GW-FS01	EP080: C6 - C10 Fraction	C6_C10	330 µg/L	77.1	44.0	122
EP080: BTEXN (QCLot: 2625182)							
EM1916583-001	GW-FS01	EP080: Benzene	71-43-2	20 µg/L	94.2	68.0	130
		EP080: Toluene	108-88-3	20 µg/L	96.9	72.0	132
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 2627226)							
EM1916495-007	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.5 µg/L	94.4	50.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.5 µg/L	96.2	50.0	130
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.5 µg/L	91.6	50.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.5 µg/L	98.2	50.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.5 µg/L	101	50.0	130
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.5 µg/L	94.0	50.0	130
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2627226)							
EM1916495-007	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	2.5 µg/L	99.2	50.0	130
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.5 µg/L	103	50.0	130
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 µg/L	101	50.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 2627226) - continued							
EM1916495-007	Anonymous	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 µg/L	106	50.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.5 µg/L	103	50.0	130
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.5 µg/L	96.4	50.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.5 µg/L	93.6	50.0	130
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.5 µg/L	95.0	50.0	130
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.5 µg/L	112	50.0	130
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.5 µg/L	127	50.0	130
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.25 µg/L	78.9	50.0	150
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 2627226)							
EM1916495-007	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.5 µg/L	102	50.0	130
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	1.25 µg/L	116	50.0	150
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	1.25 µg/L	129	50.0	150
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	1.25 µg/L	107	50.0	150
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	1.25 µg/L	111	50.0	150
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.5 µg/L	104	50.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.5 µg/L	101	50.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 2627226)							
EM1916495-007	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.5 µg/L	101	50.0	130
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.5 µg/L	101	50.0	130
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.5 µg/L	106	50.0	130
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.5 µg/L	123	50.0	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM1916583**	Page	: 1 of 7
Client	: **MEINHARDT INFR & ENVIRO P/L**	Laboratory	: Environmental Division Melbourne
Contact	: SID PALERI	Telephone	: +6138549 9645
Project	: 121544	Date Samples Received	: 04-Oct-2019
Site	: CAG-25-27 Catalina-Env Assessment	Issue Date	: 10-Oct-2019
Sampler	: MATTHEW GIBBS, SID PALERI	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA005P: pH by PC Titrator						
Clear Plastic Bottle - Natural						
GW-FS01	----	----	----	08-Oct-2019	02-Oct-2019	**6**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count		Rate (%)		Quality Control Specification
	QC	Regular	Actual	Expected	
Matrix Spikes (MS)					
PAH/Phenols (GC/MS - SIM)	0	2	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	2	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA005P: pH by PC Titrator							
Clear Plastic Bottle - Natural (EA005-P)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**08-Oct-2019**	02-Oct-2019	×
EA015: Total Dissolved Solids dried at 180 ± 5 °C							
Clear Plastic Bottle - Natural (EA015H)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**09-Oct-2019**	09-Oct-2019	✓
ED037P: Alkalinity by PC Titrator							
Clear Plastic Bottle - Natural (ED037-P)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**08-Oct-2019**	16-Oct-2019	✓
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA							
Clear Plastic Bottle - Natural (ED041G)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**08-Oct-2019**	30-Oct-2019	✓
ED045G: Chloride by Discrete Analyser							
Clear Plastic Bottle - Natural (ED045G)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**08-Oct-2019**	30-Oct-2019	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED093F: Dissolved Major Cations							
Clear Plastic Bottle - Nitric Acid; Filtered (ED093F)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**09-Oct-2019**	30-Oct-2019	✓
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**07-Oct-2019**	30-Mar-2020	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
GW-FS01	**02-Oct-2019**	**----**	----	----	**07-Oct-2019**	30-Oct-2019	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM))							
GW-FS01	**02-Oct-2019**	**07-Oct-2019**	09-Oct-2019	✓	**07-Oct-2019**	16-Nov-2019	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
GW-FS01	**02-Oct-2019**	**07-Oct-2019**	09-Oct-2019	✓	**07-Oct-2019**	16-Nov-2019	✓
Amber VOC Vial- NaHSO4 or H2SO4 (EP080)							
GW-FS01	**02-Oct-2019**	**07-Oct-2019**	16-Oct-2019	✓	**07-Oct-2019**	16-Oct-2019	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
GW-FS01	**02-Oct-2019**	**07-Oct-2019**	09-Oct-2019	✓	**07-Oct-2019**	16-Nov-2019	✓
Amber VOC Vial- NaHSO4 or H2SO4 (EP080)							
GW-FS01	**02-Oct-2019**	**07-Oct-2019**	16-Oct-2019	✓	**07-Oct-2019**	16-Oct-2019	✓
EP080: BTEXN							
Amber VOC Vial- NaHSO4 or H2SO4 (EP080)							
GW-FS01	**02-Oct-2019**	**07-Oct-2019**	16-Oct-2019	✓	**07-Oct-2019**	16-Oct-2019	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
GW-FS01	**02-Oct-2019**	**08-Oct-2019**	30-Mar-2020	✓	**08-Oct-2019**	30-Mar-2020	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
GW-FS01	**02-Oct-2019**	**08-Oct-2019**	30-Mar-2020	✓	**08-Oct-2019**	30-Mar-2020	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
GW-FS01	**02-Oct-2019**	**08-Oct-2019**	30-Mar-2020	✓	**08-Oct-2019**	30-Mar-2020	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
GW-FS01	**02-Oct-2019**	**08-Oct-2019**	30-Mar-2020	✓	**08-Oct-2019**	30-Mar-2020	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
GW-FS01	**02-Oct-2019**	**08-Oct-2019**	30-Mar-2020	✓	**08-Oct-2019**	30-Mar-2020	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Alkalinity by PC Titrator	ED037-P	1	3	**33.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	5	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	12	**16.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	5	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	2	**50.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	1	**100.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH by PC Titrator	EA005-P	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	1	2	**50.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	2	**50.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Alkalinity by PC Titrator	ED037-P	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	2	2	**100.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Chloride by Discrete Analyser	ED045G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Cations - Dissolved	ED093F	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Chloride by Discrete Analyser	ED045G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Mercury by FIMS	EG035F	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	0	2	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	2	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH by PC Titrator	EA005-P	WATER	In house: Referenced to APHA 4500 H+ B. This procedure determines pH of water samples by automated ISE. This method is compliant with NEPM (2013) Schedule B(3)
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of `filterable` residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM (2013) Schedule B(3)
Alkalinity by PC Titrator	ED037-P	WATER	In house: Referenced to APHA 2320 B This procedure determines alkalinity by automated measurement (e.g. PC Titrate) using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM (2013) Schedule B(3)
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	WATER	In house: Referenced to APHA 4500-SO4. Dissolved sulfate is determined in a 0.45um filtered sample. Sulfate ions are converted to a barium sulfate suspension in an acetic acid medium with barium chloride. Light absorbance of the BaSO4 suspension is measured by a photometer and the SO4-2 concentration is determined by comparison of the reading with a standard curve. This method is compliant with NEPM (2013) Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 Cl - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm APHA 21st edition seal method 2 017-1-L april 2003
Major Cations - Dissolved	ED093F	WATER	In house: Referenced to APHA 3120 and 3125; USEPA SW 846 - 6010 and 6020; Cations are determined by either ICP-AES or ICP-MS techniques. This method is compliant with NEPM (2013) Schedule B(3) Sodium Adsorption Ratio is calculated from Ca, Mg and Na which determined by ALS in house method QWI-EN/ED093F. This method is compliant with NEPM (2013) Schedule B(3) Hardness parameters are calculated based on APHA 2340 B. This method is compliant with NEPM (2013) Schedule B(3)
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
Ionic Balance by PCT DA and Turbi SO4 DA	* EN055 - PG	WATER	In house: Referenced to APHA 1030F. This method is compliant with NEPM (2013) Schedule B(3)

Analytical Methods	Method	Matrix	Method Descriptions
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In house: Direct injection analysis of fresh waters after dilution (1:1) with methanol. Analysis by LC-Electrospray-MS-MS, Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. This method complies with the quality control definitions as stated in QSM 5.1. Data is reviewed in line with the DQOs as stated in QSM5.1

Preparation Methods	Method	Matrix	Method Descriptions
Preparation for PFAS in water.	EP231-PR	WATER	Method presumes direct injection without workup. Preparation includes addition of internal standard and surrogate, and filtration prior to anaylsis.
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510B 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (2013) Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for sparging.

CHAIN OF CUSTODY

PROJECT NAME:	CAG-25-27 Catalina-Env Assessment	PHASE TITLE:		TURN AROUND TIME:	3 Day
PROJECT LEADER:	Sid Paleri	SAMPLER:	Matt Gibbs / Sid Paleri		
CONTACT PHONE:	03 8676 1225	LABORATORY:	Envirolab Services Melbourne	INVOICE TO:	Accounts
PROJECT NUMBER:	121544	LAB PHONE:	03 9763 2500	LAB QUOTE NO:	19M027v3
DATE:	3.10.19	LAB ADDRESS:	25 Research Dr, Croydon South VIC 3136	NO. PAGES	Page of

Please report ASAP [redacted]

MEINHARDT
Level 12
501 Swanston Street
Melbourne Victoria
Australia 3000
Tel: (03) 8676 1200
Fax: (03) 8676 1201

We have a 48hr deadline on our report

Chain of Custody No.

SAMPLE #	SAMPLE ID	DATE	TIME	INITIALS	MATRIX	CONTAINER	PRESERVATIVE	pH	TDS	15 Metals (Field Filtered)	TRH, BTEXN, PAH	Major Cations/Anions	PFAS Long Suite	TRH C6-C10/BTEXN			COMMENTS
1	CAG-CAT01-MW01	2019		MG	GW	ESKY	ICE	x	x	x	x	x	x				URGENT
2	CAG-CAT01-MW02					ESKY	ICE	x	x	x	x	x	x				
3	CAG-CAT01-MW03					ESKY	ICE	x	x	x	x	x	x				
4	GW-FD01					ESKY	ICE	x	x	x	x	x	x				
(1) 5	GW-FS01					ESKY	ICE	x	x	x	x	x	x				
6	CAG-CAT01-GW-RB01				W	ESKY	ICE			x	x		x				Please send FS01 to ALS Springvale for Analysis
7	CAG-CAT01-GW-TB01					ESKY	ICE							x			CAG-CAT01-GW-RB01 to get Total Metals
8						ESKY	ICE										
9						ESKY	ICE										
10						ESKY	ICE										
11						ESKY	ICE										
12						ESKY	ICE										
13						ESKY	ICE										
14						ESKY	ICE										
15						ESKY	ICE										

Environmental Division
Melbourne
Work Order Reference
EM1916583

Telephone : + 61-3-8549 9600

Please email results to: Sid.Paleri@meinhardtgroup.com Matthew.Gibbs@meinhardtgroup.com

W= Water

Samples on Ice ☒ Yes ☐ No

NOTES:

- Metals (Field Filtered) includes Al, Sb, As, Be, Cd, Cr(total), Cu, Fe, Pb, Hg, Ni, Se, Ag, Tl and Zn
- PFAS Long Suite includes 28 Analytes

	Print	Sign	Date	Time		Print	Sign	Date	Time
Relinquished By MEINHARDT:	MATT GIBBS		3.10.19	15:00	Received By COURIER:				
Relinquished By COURIER					Courier Company Name				
Courier Company Name:					Received By LABORATORY			4/10	1:24

APPENDIX G QUALITY ASSURANCE AND QUALITY CONTROL TABLES

Summary of Results
QA/QC (Soil) - RPDs

			Lab Report Number	18085	18086		18085	EM1915135			18085	18086		18085	EM1915135			18085	18086		18085	EM1915135	
			Field ID	CAG-CAT01-SB01-1.5	FD01	RPD	CAG-CAT01-SB01-1.5	FS01	RPD		CAG-CAT01-SB04-1.0	FD02	RPD	CAG-CAT01-SB04-1.0	FS02	RPD		CAG-CAT01-SB07-0.5	FD03	RPD	CAG-CAT01-SB07-0.5	FS03	RPD
			Sampled Date/Time	9/09/2019	9/09/2019		9/09/2019	9/09/2019			9/09/2019	9/09/2019		9/09/2019	9/09/2019			10/09/2019	10/09/2019		10/09/2019	10/09/2019	
Chemical Group	**Chemical Name**	**Units**	**EQL**																				
Asbestos	Asbestos fibres	-																0.0	0.0	0	0.0		
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	6:2 Fluorotelomer sulfonate (6:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	10:2 Fluorotelomer sulfonate (10:2 FTS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 (Primary): 0.001 (Interlab	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Sum of PFHxS and PFOS	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0
)A	NEtFOSAA	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	NMeFOSAA	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Methyl perfluorooctane sulfonamide (NMeFO	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroheptanesulfonic acid*	mg/kg	0.005	<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005		
	Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Sum of PFAS	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005		
PFOS/PFOA (leacl	NEtFOSAA	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA	µg/L	0.1 (Primary): 0.05 (Interlab)	<0.1	<0.1	0	<0.1	<0.05	0		<0.1	<0.1	0	<0.1	<0.05	0		<0.1	<0.1	0	<0.1	<0.05	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0
	NMeFOSAA	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	N-Methyl perfluorooctane sulfonamide (NMeFO	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoroheptanesulfonic acid*	µg/L	0.05	<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05		
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	0.03	0		**0.06**	**0.15**	**86**	**0.06**	**0.14**	**80**
	Perfluorononanoic acid (PFNA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Sum of PFAS	µg/L	0.05 (Primary): 0.01 (Interlab)	<0.05	<0.05	0	<0.05	<0.01	0		<0.05	<0.05	0	<0.05	0.05	0		**0.06**	**0.15**	**86**	**0.06**	**0.23**	**117**
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.05	<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05		
TPH	TPH C6-C9	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0
	TPH C10 - C14	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
	TPH C15 - C28	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	TPH C29 - C36	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	TPH C10 - C36 (Sum of Total)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
TRH	F1 (TRH C6-C10 less BTEX)	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0
	F2 (TRH C10-C16 less Naphthalene)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
	F3 (TRH C16-C34)	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	F4 (TRH C34-C40)	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	TRH C6-C10	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0
	TRH C10-C16	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
	TRH C10 - C40 (Sum of total)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
BTEX	Benzene	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0		<0.2	<0.2	0	<0.2	<0.2	0		<0.2	<0.2	0	<0.2	<0.2	0
	Toluene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0
	Ethylbenzene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
	Xylene (o)	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
	Xylene (m & p)	mg/kg	2 (Primary): 0.5 (Interlab)	<2.0	<2.0	0	<2.0	<0.5	0		<2.0	<2.0	0	<2.0	<0.5	0		<2.0	<2.0	0	<2.0	<0.5	0
	Xylene Total	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
Metals	Arsenic	mg/kg	4 (Primary): 5 (Interlab)	4.0	<4.0	0	4.0	6.0	40		<4.0	<4.0	0	<4.0	6.0	40		4.0	<4.0	0	4.0	6.0	40
	Beryllium	mg/kg	1	1.0	2.0	67	1.0				1.0	1.0	0	1.0				<1.0	<1.0	0	<1.0		
	Cadmium	mg/kg	0.4 (Primary): 1 (Interlab)	<0.4	<0.4	0	<0.4	<1.0	0		<0.4	<0.4	0	<0.4	<1.0	0		<0.4	<0.4	0	<0.4	<1.0	0
	Lead	mg/kg	1 (Primary): 5 (Interlab)	12.0	10.0	18	12.0	15.0	22		13.0	12.0	8	13.0	11.0	17		9.0	13.0	36	**9.0**	**23.0**	**88**
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0		<0.1	<0.1	0	<0.1	<0.1	0		<0.1	<0.1	0	<0.1	<0.1	0
	Molybdenum	mg/kg	1	<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0		
	Nickel	mg/kg	1 (Primary): 2 (Interlab)	18.0	19.0	5	18.0	16.0	12		11.0	12.0	9	11.0	14.0	24		11.0	11.0	0	11.0	17.0	43
	Selenium	mg/kg	2	<2.0	<2.0	0	<2.0				<2.0	<2.0	0	<2.0				<2.0	<2.0	0	<2.0		
	Silver	mg/kg	1	<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0		
PAH	Acenaphthene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Acenaphthylene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Benz(a)anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Benzo(a) pyrene	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0		<0.05	<0.05	0	<0.05	<0.5	0		<0.05	<0.05	0	<0.05	<0.5	0
	Benzo(b+k)fluoranthene	mg/kg	0.2	<0.2	<0.2	0	<0.2				<0.2	<0.2	0	<0.2				<0.2	<0.2	0	<0.2		
	Benzo(g,h,i)perylene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Chrysene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Dibenz(a,h)anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Fluoranthene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Fluorene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Naphthalene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
	Naphthalene	mg/kg	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	PAHs (Sum of total)	mg/kg	0.05	<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05		
	Phenanthrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Pyrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
B(a)P TEQ	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	<0.5	<0.5	0	<0.5	0.6	18		<0.5	<0.5	0	<0.5	0.6	18		<0.5	<0.5	0	<0.5	0.6	18
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	<0.5	<0.5	0	**<0.5**	**1.2**	**82**		<0.5	<0.5	0	**<0.5**	**1.2**	**82**		<0.5	<0.5	0	**<0.5**	**1.2**	**82**

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Summary of Results
QA/QC (Soil) - RPDs

			Lab Report Number	18085	18086	RPD	18085	EM1915135	RPD		18086	18086	RPD	18086	EM1915135	RPD		18086	18086	RPD	18086	EM1915135	RPD
			Field ID	CAG-CAT01-SB10-0.2	FD04		CAG-CAT01-SB10-0.2	FS04			CAG-CAT01-SB12-4.0	FD05		CAG-CAT01-SB12-4.0	FS05			CAG-CAT01-SB15-3.0	FD06		CAG-CAT01-SB15-3.0	FS06	
			Sampled Date/Time	10/09/2019	10/09/2019		10/09/2019	10/09/2019			10/09/2019	10/09/2019		10/09/2019	10/09/2019			11/09/2019	11/09/2019		11/09/2019	11/09/2019	
Chemical Group	**Chemical Name**	**Units**	**EQL**																				
Asbestos	Asbestos fibres	-																					
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	6:2 Fluorotelomer sulfonate (6:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	10:2 Fluorotelomer sulfonate (10:2 FTS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 (Primary): 0.001 (Interlab	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.005 (Primary): 0.0002 (Interla	0.024	0.02	18	0.024	0.0185	26		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Sum of PFHxS and PFOS	mg/kg	0.005 (Primary): 0.0002 (Interla	0.024	0.02	18	0.024	0.0185	26		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0
)A	NEtFOSAA	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	NMeFOSAA	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	N-Methyl perfluorooctane sulfonamide (NMeFO	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroheptanesulfonic acid*	mg/kg	0.005	<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005		
	Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Sum of PFAS	mg/kg	0.005 (Primary): 0.0002 (Interla	0.024	0.02	18	0.024	0.0185	26		<0.005	<0.005	0	<0.005	<0.005	0		<0.005	<0.005	0	<0.005	<0.005	0
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005	0.024	0.02	18	0.024				<0.005	<0.005	0	<0.005				<0.005	<0.005	0	<0.005		
PFOS/PFOA (leacl	NEtFOSAA	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA	µg/L	0.1 (Primary): 0.05 (Interlab)	<0.1	<0.1	0	<0.1	<0.05	0		<0.1	<0.1	0	<0.1	<0.05	0		<0.1	<0.1	0	<0.1	<0.05	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0
	NMeFOSAA	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	N-Methyl perfluorooctane sulfonamide (NMeFO	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0		<0.05	<0.05	0	<0.05	<0.05	0
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoroheptanesulfonic acid*	µg/L	0.05	<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05		
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.05 (Primary): 0.02 (Interlab)	0.1	0.11	10	0.1	0.12	18		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorononanoic acid (PFNA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0		<0.5	<0.5	0	<0.5	<0.05	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0		<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0		<0.05	<0.05	0	<0.05	<0.02	0
	Sum of PFAS	µg/L	0.05 (Primary): 0.01 (Interlab)	0.26	0.21	21	**0.26**	**0.58**	**76**		<0.05	<0.05	0	<0.05	<0.01	0		<0.05	<0.05	0	<0.05	<0.01	0
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.05	0.16	0.1	46	0.16				<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05		
TPH	TPH C6-C9	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0
	TPH C10 - C14	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
	TPH C15 - C28	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	TPH C29 - C36	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	TPH C10 - C36 (Sum of Total)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
TRH	F1 (TRH C6-C10 less BTEX)	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0
	F2 (TRH C10-C16 less Naphthalene)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
	F3 (TRH C16-C34)	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	F4 (TRH C34-C40)	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0		<100.0	<100.0	0	<100.0	<100.0	0
	TRH C6-C10	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0		<25.0	<25.0	0	<25.0	<10.0	0
	TRH C10-C16	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
	TRH C10 - C40 (Sum of total)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0		<50.0	<50.0	0	<50.0	<50.0	0
BTEX	Benzene	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0		<0.2	<0.2	0	<0.2	<0.2	0		<0.2	<0.2	0	<0.2	<0.2	0
	Toluene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0
	Ethylbenzene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
	Xylene (o)	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
	Xylene (m & p)	mg/kg	2 (Primary): 0.5 (Interlab)	<2.0	<2.0	0	<2.0	<0.5	0		<2.0	<2.0	0	<2.0	<0.5	0		<2.0	<2.0	0	<2.0	<0.5	0
	Xylene Total	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
Metals	Arsenic	mg/kg	4 (Primary): 5 (Interlab)	<4.0	<4.0	0	**<4.0**	**11.0**	**93**		<4.0	<4.0	0	<4.0	<5.0	0		<4.0	<4.0	0	<4.0	<5.0	0
	Beryllium	mg/kg	1	<1.0	<1.0	0	<1.0				<1.0	1.0	0	<1.0				<1.0	1.0	0	<1.0		
	Cadmium	mg/kg	0.4 (Primary): 1 (Interlab)	<0.4	<0.4	0	<0.4	<1.0	0		<0.4	<0.4	0	<0.4	<1.0	0		<0.4	<0.4	0	<0.4	<1.0	0
	Lead	mg/kg	1 (Primary): 5 (Interlab)	21.0	19.0	10	21.0	28.0	29		10.0	16.0	46	10.0	13.0	26		**7.0**	**12.0**	**53**	7.0	10.0	35
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0		<0.1	<0.1	0	<0.1	<0.1	0		<0.1	<0.1	0	<0.1	<0.1	0
	Molybdenum	mg/kg	1	<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0		
	Nickel	mg/kg	1 (Primary): 2 (Interlab)	11.0	9.0	20	**11.0**	**31.0**	**95**		9.0	13.0	36	9.0	11.0	20		8.0	12.0	40	8.0	8.0	0
	Selenium	mg/kg	2	<2.0	<2.0	0	<2.0				<2.0	<2.0	0	<2.0				<2.0	<2.0	0	<2.0		
	Silver	mg/kg	1	<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0				<1.0	<1.0	0	<1.0		
PAH	Acenaphthene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Acenaphthylene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Benz(a)anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Benzo(a) pyrene	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0		<0.05	<0.05	0	<0.05	<0.5	0		<0.05	<0.05	0	<0.05	<0.5	0
	Benzo(b+k)fluoranthene	mg/kg	0.2	<0.2	<0.2	0	<0.2				<0.2	<0.2	0	<0.2				<0.2	<0.2	0	<0.2		
	Benzo(g,h,i)perylene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Chrysene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Dibenz(a,h)anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Fluoranthene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Fluorene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Naphthalene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0		<1.0	<1.0	0	<1.0	<0.5	0
	Naphthalene	mg/kg	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	PAHs (Sum of total)	mg/kg	0.05	<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05				<0.05	<0.05	0	<0.05		
	Phenanthrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
	Pyrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0		<0.1	<0.1	0	<0.1	<0.5	0
B(a)P TEQ	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0		<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	<0.5	<0.5	0	<0.5	0.6	18		<0.5	<0.5	0	<0.5	0.6	18		<0.5	<0.5	0	<0.5	0.6	19
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	<0.5	<0.5	0	**<0.5**	**1.2**	**82**		<0.5	<0.5	0	**<0.5**	**1.2**	**82**		<0.5	<0.5	0	**<0.5**	**1.2**	**82**

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-30 x
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any m

Summary of Results
QA/QC (Soil) - RPDs

		Lab Report Number	18086	18086		18086	EM1915135		
		Field ID	CAG-CAT01-SB17-4.0	FD07	**RPD**	CAG-CAT01-SB17-4.0	FS07	**RPD**	
		Sampled Date/Time	11/09/2019	11/09/2019		11/09/2019	11/09/2019		
Chemical Group	**Chemical Name**	**Units**	**EQL**						
Asbestos	Asbestos fibres	-							
PFAS Compounds	4:2 Fluorotelomer sulfonate (4:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	6:2 Fluorotelomer sulfonate (6:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	10:2 Fluorotelomer sulfonate (10:2 FTS)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorobutanoic acid (PFBA)	mg/kg	0.005 (Primary): 0.001 (Interlab	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorohexanoic acid (PFHxA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctanoic acid (PFOA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoropentanoic acid (PFPeA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Sum of PFHxS and PFOS	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	N-Me perfluorooctanesulfonamid -oethanol	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
ıA	NEtFOSAA	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	NMeFOSAA	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	N-Methyl perfluorooctane sulfonamide (NMeFO	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorodecanoic acid (PFDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroheptanesulfonic acid*	mg/kg	0.005	<0.005	<0.005	0	<0.005		
	Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorononanoic acid (PFNA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorooctane sulfonamide (PFOSA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005 (Primary): 0.0005 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Sum of PFAS	mg/kg	0.005 (Primary): 0.0002 (Interla	<0.005	<0.005	0	<0.005	<0.005	0
	Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005	<0.005	<0.005	0	<0.005		
PFOS/PFOA (leacl	NEtFOSAA	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOSA	µg/L	0.1 (Primary): 0.05 (Interlab)	<0.1	<0.1	0	<0.1	<0.05	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	NMeFOSAA	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	N-Methyl perfluorooctane sulfonamide (NMeFO	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoroheptanesulfonic acid*	µg/L	0.05	<0.05	<0.05	0	<0.05		
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorononanoic acid (PFNA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Sum of PFAS	µg/L	0.05 (Primary): 0.01 (Interlab)	<0.05	<0.05	0	<0.05	<0.01	0
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.05	<0.05	<0.05	0	<0.05		
TPH	TPH C6-C9	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0
	TPH C10 - C14	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0
	TPH C15 - C28	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0
	TPH C29 - C36	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0
	TPH C10 - C36 (Sum of Total)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0
TRH	F1 (TRH C6-C10 less BTEX)	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0
	F2 (TRH C10-C16 less Naphthalene)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0
	F3 (TRH C16-C34)	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0
	F4 (TRH C34-C40)	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0
	TRH C6-C10	mg/kg	25 (Primary): 10 (Interlab)	<25.0	<25.0	0	<25.0	<10.0	0
	TRH C10-C16	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0
	TRH C10 - C40 (Sum of total)	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0
BTEX	Benzene	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0
	Toluene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Ethylbenzene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0
	Xylene (o)	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0
	Xylene (m & p)	mg/kg	2 (Primary): 0.5 (Interlab)	<2.0	<2.0	0	<2.0	<0.5	0
	Xylene Total	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0
Metals	Arsenic	mg/kg	4 (Primary): 5 (Interlab)	9.0	18.0	67	9.0	18.0	67
	Beryllium	mg/kg	1	<1.0	1.0	0	<1.0		
	Cadmium	mg/kg	0.4 (Primary): 1 (Interlab)	<0.4	<0.4	0	<0.4	<1.0	0
	Lead	mg/kg	1 (Primary): 5 (Interlab)	**12.0**	**23.0**	**63**	**12.0**	**25.0**	**70**
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Molybdenum	mg/kg	1	<1.0	<1.0	0	<1.0		
	Nickel	mg/kg	1 (Primary): 2 (Interlab)	12.0	16.0	29	12.0	16.0	29
	Selenium	mg/kg	2	<2.0	<2.0	0	<2.0		
	Silver	mg/kg	1	<1.0	<1.0	0	<1.0		
PAH	Acenaphthene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Acenaphthylene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Benz(a)anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Benzo(a) pyrene	mg/kg	0.05 (Primary): 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0
	Benzo(b+k)fluoranthene	mg/kg	0.2	<0.2	<0.2	0	<0.2		
	Benzo(g,h,i)perylene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Chrysene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Dibenz(a,h)anthracene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Fluoranthene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Fluorene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Naphthalene	mg/kg	1 (Primary): 0.5 (Interlab)	<1.0	<1.0	0	<1.0	<0.5	0
	Naphthalene	mg/kg	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	PAHs (Sum of total)	mg/kg	0.05	<0.05	<0.05	0	<0.05		
	Phenanthrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Pyrene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
B(a)P TEQ	Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5	<0.5	<0.5	0	<0.5	0.6	18
	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	<0.5	<0.5	0	**<0.5**	**1.2**	**82**

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-30 x
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any m

Capital Airport Group
25-27 Catalina Drive, Canberra Airport
Detailed Site Investigation Report

Summary of Results
QA/QC (Soil) - RPDs

Lab Report Number			18357	18357		18357	EM1916583	
Field ID			CAG-CAT01-MW01	GW-FD01	**RPD**	CAG-CAT01-MW01	GW-FS01	**RPD**
Sampled Date/Time			2/10/2019	2/10/2019		2/10/2019	2/10/2019	
Chemical Group	**Chemical Name**	**Units**	**EQL**					
PFOS/PFOA	4:2 Fluorotelomer sulfonate (4:2 FtS)	µg/L	0.01 (Primary): 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	6:2 Fluorotelomer sulfonate (6:2 FtS)	µg/L	0.01 (Primary): 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01 (Primary): 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	10:2 Fluorotelomer sulfonate (10:2 FTS)	µg/L	0.01 (Primary): 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	Perfluorobutanoic acid (PFBA)	µg/L	0.02 (Primary): 0.1 (Interlab)	0.04	0.05	22	0.04	<0.1	0
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01 (Primary): 0.02 (Interlab)	0.11	0.1	10	0.11	0.12	9
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01 (Primary): 0.02 (Interlab)	0.04	0.04	0	0.04	0.04	0
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01 (Primary): 0.02 (Interlab)	0.26	0.27	4	0.26	0.24	8
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.07	0.07	0	0.07	0.07	0
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	1.1	1.1	0	1.1	1.2	9
	Perfluoropentanoic acid (PFPeA)	µg/L	0.02	0.1	0.1	0	0.1	0.11	10
	Sum of PFHxS and PFOS	µg/L	0.01	2.0	2.0	0	2.0	1.88	6
	N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	NEtFOSAA	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.02	0
	N-Ethyl perfluorooctane sulfonamide (NEtFOS/	µg/L	0.1 (Primary): 0.05 (Interlab)	<0.1	<0.1	0	<0.1	<0.05	0
	N-ethylperfluorooctanesulfonamidoethanol (NE	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	NMeFOSAA	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.02	0
	N-Methyl perfluorooctane sulfonamide (NMeFC	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	Perfluorodecanesulfonic acid (PFDS)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.02	0
	Perfluorodecanoic acid (PFDA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.02	0
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.05 (Primary): 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoroheptanesulfonic acid*	µg/L	0.01	0.05	0.06	18	0.05		
	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01 (Primary): 0.02 (Interlab)	0.88	0.9	2	0.88	0.68	26
	Perfluorononanoic acid (PFNA)	µg/L	0.01 (Primary): 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorooctane sulfonamide (PFOSA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01 (Primary): 0.02 (Interlab)	0.12	0.12	0	0.12	0.11	9
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.1 (Primary): 0.02 (Interlab)	<0.1	<0.1	0	<0.1	<0.02	0
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.02	0
	Sum of PFAS	µg/L	0.01	2.8	2.8	0	2.8	2.61	7
	Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01	1.2	1.2	0	1.2		
Inorganics	Hardness (Filtered)	mg/L	3	250.0	240.0	4	250.0		
	Hydroxide	µg/l	5000	<5000.0	<5000.0	0	<5000.0		
	pH (Lab)	pH Un		8.0	8.0	0	8.0	7.97	0
	TDS	mg/l	5 (Primary): 10 (Interlab)	560.0	540.0	4	560.0	745.0	28
TPH	TPH C6-C9	µg/L	10 (Primary): 20 (Interlab)	<10.0	<10.0	0	<10.0	<20.0	0
	TPH C10 - C14	µg/L	50	<50.0	<50.0	0	<50.0	<50.0	0
	TPH C15 - C28	µg/L	100	<100.0	<100.0	0	<100.0	<100.0	0
	TPH C29 - C36	µg/L	100 (Primary): 50 (Interlab)	<100.0	<100.0	0	<100.0	<50.0	0
	TPH C10 - C36 (Sum of Total)	µg/L	50	<50.0	<50.0	0	<50.0	<50.0	0
TRH	F1 (TRH C6-C10 less BTEX)	mg/l	0.01 (Primary): 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	F2 (TRH C10-C16 less Naphthalene)	mg/l	0.05 (Primary): 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	F3 (TRH C16-C34)	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	F4 (TRH C34-C40)	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	TRH C6-C10	mg/l	0.01 (Primary): 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	TRH C10-C16	mg/l	0.05 (Primary): 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	TRH C10 - C40 (Sum of total)	µg/L	50 (Primary): 100 (Interlab)	<50.0	<50.0	0	<50.0	<100.0	0
BTEX	Benzene	µg/L	1	<1.0	<1.0	0	<1.0	<1.0	0
	Toluene	µg/L	1 (Primary): 2 (Interlab)	<1.0	<1.0	0	<1.0	<2.0	0
	Ethylbenzene	µg/L	1 (Primary): 2 (Interlab)	<1.0	<1.0	0	<1.0	<2.0	0
	Xylene (o)	µg/L	1 (Primary): 2 (Interlab)	<1.0	<1.0	0	<1.0	<2.0	0
	Xylene (m & p)	µg/L	2	<2.0	<2.0	0	<2.0	<2.0	0
	Xylene Total	µg/L	1 (Primary): 2 (Interlab)	<1.0	<1.0	0	<1.0	<2.0	0
Metals	Aluminium (Filtered)	mg/l	0.01	**0.43**	**0.2**	**73**	0.43		
	Antimony (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Arsenic (Filtered)	mg/l	0.001	0.002	0.001	67	0.002	<0.001	67
	Beryllium (Filtered)	mg/l	0.0005 (Primary): 0.001 (Interla	<0.0005	<0.0005	0	<0.0005	<0.001	0
	Cadmium (Filtered)	mg/l	0.0001	<0.0001	<0.0001	0	<0.0001	<0.0001	0
	Chromium (III+VI) (Filtered)	mg/l	0.001	0.001	<0.001	0	0.001	<0.001	0
	Copper (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Iron (Filtered)	mg/l	0.01	**0.33**	**0.12**	**93**	0.33		
	Lead (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Mercury (Filtered)	mg/l	0.00005 (Primary): 0.0001 (Inte	<0.0001	<0.0001	0	<0.0001	<0.0001	0
	Nickel (Filtered)	mg/l	0.001	0.001	0.001	0	0.001	<0.001	0
	Selenium (Filtered)	mg/l	0.001 (Primary): 0.01 (Interlab)	0.002	0.002	0	0.002	<0.01	0
	Silver (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Thallium (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Zinc (Filtered)	mg/l	0.001 (Primary): 0.005 (Interlab	0.004	0.006	40	0.004	<0.005	0
PAH	Acenaphthene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Acenaphthylene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Anthracene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Benz(a)anthracene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Benzo(a) pyrene	µg/L	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.5	0
	Benzo(b+k)fluoranthene	µg/L	0.2	<0.2	<0.2	0	<0.2		
	Benzo(g,h,i)perylene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Chrysene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Dibenz(a,h)anthracene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Fluoranthene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Fluorene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Indeno(1,2,3-c,d)pyrene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Naphthalene	µg/L	1 (Primary): 5 (Interlab)	<1.0	<1.0	0	<1.0	<1.0	0
	Naphthalene	µg/L	0.1 (Primary): 5 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	PAHs (Sum of total)	µg/L		0.0	0.0	0	0.0		
	Phenanthrene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
	Pyrene	µg/L	0.1 (Primary): 1 (Interlab)	<0.1	<0.1	0	<0.1	<1.0	0
Major Anions	Alkalinity (Bicarbonate as CaCO3)	mg/l	5 (Primary): 1 (Interlab)	270.0	260.0	4	270.0	278.0	3
	Alkalinity (Carbonate as CaCO3)	mg/l	5 (Primary): 1 (Interlab)	<5.0	<5.0	0	<5.0	<1.0	0
	Alkalinity (total)	mg/l	5	270.0	260.0	4	270.0		
	Chloride	mg/l	1	120.0	140.0	15	120.0	140.0	15
	Sulphate (Filtered)	mg/l	1	64.0	86.0	29	64.0		
Major Cations	Calcium	mg/l	0.5	52.0	50.0	4	52.0		
	Magnesium	mg/l	0.5	30.0	29.0	3	30.0		
	Potassium	mg/l	0.5	1.3	1.3	0	1.3		
	Sodium	mg/l	0.5	120.0	120.0	0	120.0		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory