

SH Gosford Residential Pty Ltd
Updated Detailed Site Investigation
26-30 Mann Street, Gosford NSW

Purpose:

To provide an updated detailed site investigation assessing the potential for contamination to exist as a result of current and/or historical activities and address data gaps relating to the potential reuse of soil material at the site.

Prepared for:

Frank Katsanevas

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Reference:

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STATEMENT OF LIMITATIONS

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Environmental site assessments identify actual subsurface conditions only at those points where samples are taken and when they are taken. Soil contamination can be expected to be non-homogeneous across the stratified soils where present on site, and the concentrations of contaminants may vary significantly within areas where contamination has occurred. In addition, the migration of contaminants through groundwater and soils may follow preferential pathways, such as areas of higher permeability, which may not be intersected by sampling events. Subsurface conditions including contaminant concentrations can also change over time. For this reason, the results should be regarded as representative only.

The client recognises that sampling of subsurface conditions may result in some cross contamination. All care will be taken and the industry standards used to minimise the risk of such cross contamination occurring, however, the client recognises this risk and waives any claims against EDP and agrees to defend, indemnify and hold EDP harmless from any claims or liability for injury or loss which may arise as a result of alleged cross contamination caused by sampling.

Reliance on Information Provided by Others

EDP notes that where information has been provided by other parties in order for the works to be undertaken, EDP cannot guarantee the accuracy or completeness of this information the client therefore waives any claim against the company and agrees to indemnify EDP for any loss, claim or liability arising from inaccuracies or omissions in information provided to EDP by third parties. No indications were found during our investigations that information contained in this report, as provided to EDP, is false.

Recommendations for Further Study

The industry recognised methods used in undertaking the works may dictate a staged approach to specific investigations. The findings therefore of this report may represent preliminary findings in accordance with these industry recognised methodologies. In accordance with these methodologies, recommendations contained in this report may include a need for further investigation or analytical analysis. The decision to accept these recommendations and incur additional costs in doing so will be at the sole discretion of the client and EDP recognises that that the client will consider their specific needs and the business risks involved. EDP does not accept any liability for losses incurred as a result of the client not accepting the recommendations made within this report.

EXECUTIVE SUMMARY

SH Gosford Residential Pty Ltd (the Client) engaged EDP Consultants Pty Ltd (EDP) to conduct an updated Tier I Detailed Site Investigation (DSI) of the vacant lot located at 26-30 Mann Street, Gosford NSW (the site). This report is in response to the approved Masterplan SSD 10114 Clause C33. The objective of this updated DSI was to further characterise site soils, undertake a contamination assessment of the site and address data gaps relating to the waste classification and potential reuse of soil material at the site in light of upcoming works.

The site has an approximate area of 8,884 m² is legally defined as Lot 111 in Deposited Plan (DP) 1265226, Lot 469 in DP 821073, and Lots 2-7 in DP 14761.

The scope of works for this DSI included the following:

- Review of the existing environmental reports for the site and reports relating to the site history prior to 1954 (**Section 7.5**);
- Inspection of the site by EDP's qualified Environmental Scientists, to identify site characteristics that may be suggestive of site contamination;
- Excavation of 20 systematic test pits across the investigation area to a maximum depth of 1.5 m below ground level (mbgl) using a 3-tonne rubber tracked excavator;
- Excavation of 5 systematic boreholes across the investigation area to a maximum depth of 5.0 m below ground level (mbgl) using a track mounted drill rig;
- Collection of soil samples for chemical characterisation at each test pit and borehole location, including collection of quality control (QC) samples;
- Analysis of samples for CoPC at a National Association of Testing Authorities, (NATA) Australia accredited laboratory, with the remainder on hold pending results;
- Comparison of soil analytical results against the adopted human health criteria for the site, in accordance with NEPM 2013;
- Comparison of results against the NSW ENM Order and NSW EPA *Waste Classification Guidelines: Part 1 – Classifying Waste, 2014*;
- Development of an Updated Conceptual Site Model (CSM) to rectify data gaps that required additional environmental information; and
- Preparation of this updated DSI report in accordance with relevant guidelines for contaminated lands assessment.

In summary, the sources of impact (areas of environmental concern) identified in the assessment area include:

- Uncontrolled historical filling; and
- Poor demolition practices.

Analytical results for the chemical contaminants indicated that concentrations of contaminants of potential concern (COPC) were generally less than the laboratory practical quantitative limits (PQLs) with the results less than the adopted investigation and screening levels for each sample analysed.

The intrusive investigation (test pits constructed with excavator) identified a fill layer of varying depth (0.5 m to 1.5 m) across the site, with varying quantities of foreign materials. The fill material at TP19 varied notably, comprising numerous anthropogenic inclusions of scrap metal, bricks, terracotta, timber, blue metal gravels and minor amounts of ACM fragments.

No ACM was identified to the ground surface within the investigation area, within any other test pit locations or within soil samples submitted for laboratory analysis. EDP considers the asbestos contamination present at the site to be localised within the vicinity of TP19 given the subsurface profile varied significantly to that of the rest of the site.

The identification of localised ACM within the soil presents a risk to potential receptors, including site workers throughout the construction works, neighbouring site users and future occupiers of the site. These risks must be managed throughout the proposed construction and earthworks, to mitigate the risks posed to potential receptors. These risks must be managed under a site-specific Asbestos Management Plan (AMP) incorporated into a Construction

Environmental Management Plan. The level of contamination (extent and degree) is not considered significant enough to require the preparation of a RAP.

In-situ fill material at the site is currently not considered compliant with the NSW EPA *Excavated Natural Material Order 2014* and is currently not suitable for reuse due to exceedances of benzo(a)pyrene (BaP) and foreign materials. If during bulk earthworks sections of soil are determined to be visibly free of foreign materials, these soils should be stockpiled in a separate location on-site to allow for additional ENM assessment. This approach must ensure the unacceptable hotspots (those exceeding absolute maximum) are excluded from further assessment. Alternatively, in-situ soils at the site (excluding TP19) are classified as General Solid Waste (non-putrescible). Soils excavated from the asbestos hotspot identified at TP19 must be disposed offsite as Special Waste (asbestos waste) with chemical classification of General Solid Waste (non-putrescible).

Potential Acid Sulfate Soils (ASS) were identified within natural materials underlying the fill layer at the site. These ASS will be managed in accordance with the Acid Sulfate Soils Management Plan to be prepared for the site.

EDP concludes that based on the investigation results, the site is suitable for the proposed site works, subject to the development and implementation of an AMP prepared by a suitably qualified and experienced environmental professional. This AMP must be implemented throughout all earthworks undertaken at the site.

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I. INTRODUCTION

SH Gosford Residential Pty Ltd (the Client) engaged EDP Consultants Pty Ltd (EDP) to conduct an updated Tier I Detailed Site Investigation (DSI) of the vacant lot located at 26-30 Mann Street, Gosford NSW (the site). This report is in response to the approved Masterplan SSD 10114 Clause C33. The objective of this updated DSI was to further characterise site soils, undertake a contamination assessment of the site and address data gaps relating to the waste classification and potential reuse of soil material at the site in light of upcoming works.

The site has an approximate area of 8,884 m² and is legally defined as Lot 111 in Deposited Plan (DP) 1265226, Lot 469 in DP 821073, and Lots 2-7 in DP 14761.

Refer to **Figure 1** for the site location provided in **Appendix A**.

2. BACKGROUND

A mixed commercial land use has been proposed to be developed by the Client at the site. The development is to comprise the construction of a basement carpark covering the entire area and three multi-storey residential/commercial structures situated above the basement.

The development on this land has been carried out in three stages.

- Stage 1 – The newly constructed Australian Taxation Office building in the north;
- Stage 2 – The newly constructed residential building in the mid-east of the site; and
- Stage 3 – The remaining area of an irregular shape of 8,884 m² which is the study site of this DSI.

The Updated DSI is to be submitted to the Department of Planning, Industry and Environment (DPIE) on behalf of the SH Gosford Residential and in support of an application for SSD application number 23588910 at 26-30 Mann Street, Gosford. The SSDA seeks consent for:

- Demolition of the existing retaining wall on site.
- Removal of three trees located at the site interface with Baker Street.
- Excavation to a depth of approximately 1.3 m to accommodate the proposed ground floor structure.
- Earthworks to level the site in readiness for the proposed building.
- Construction of a 25-storey (26 level) mixed-use building, comprising:
 - 621sqm of retail GFA.
 - 136 apartments, equating to 13,263sqm of residential GFA.
 - Four parking levels for 183 cars, with vehicular access from Baker Street.
 - Storage areas and services.
 - Communal open space.
- Publicly accessible through site link, including stairs, walkways, public lift, public art and landscaping.

The area has been the subject of various investigations. A Preliminary Site Investigation (PSI) had been carried out by Douglas Partners (DP) in 2014 (DP Ref: 75722.00, dated March 2014) for the entire area before the public school was demolished. Later, a DSI was conducted by DP in November 2016 for the area of Stage 2 development (DP Ref: 82945.01, dated November 2016). The investigation identified areas with asbestos-containing material (ACM) across the central portion of the site and two exceedances of the *National Environment Protection (Assessment of Site Contamination) Measure (NEPM), Amendment, 2013* (NEPM 2013) Tier 1 ecological screening level (ESL) for contaminant of potential concern (CoPC) benzo(a)pyrene (BaP) in a limited area of surficial soil in the north-east corner. Acid Sulfate Soil (ASS) and Potential ASS (PASS) were also identified in shallow soils near the southern extent of the footprint of Stage 2. The Remediation Action Plan was prepared by Cardno in June 2017 (Cardno Ref: CGS3311, dated June 2017) to guide and inform the remediation of soils for Stage 2 development. Additional limited soil investigation identified ACM in localised areas across the central portion of the Stage 2 site, confirming the findings of the DSI. The analytical results showed that BaP was detected at concentrations above the NEPM 2013 ESL in the samples from the southern portion of the footprint. In September 2017, Cardno advanced additional

boreholes and test pits for soil assessment and classification (Cardno Ref: CGS3311_500_L003, dated September 2017). ACM was detected in the surface soils but not in the natural soil. Natural soil across the site below a depth approximately ranging from 1.5 to 5.0 m below ground level (mbgl) was noted to meet the definition of Excavated Natural Material (ENM).

For the Stage 3 development (the subject of this study), Cardno completed a PSI in 2017 (report not provided) and Coffey conducted a DSI as well as the geotechnical investigation assessment in 2018 (updated in 2019) (Coffey Ref: SYDGE214942-AC_Rev4, dated August 2019). Coffey concluded in its DSI report that the areas of environmental concern did not present an unacceptable health or environmental risk to the intended receptors with respect to the proposed development. The analytical results of soil samples showed that BaP exceeding the NEPM health investigation level (HIL) B was detected at BH8 (0-1 m). Asbestos was not detected in collected samples. The groundwater results showed that only copper (Cu) exceeded the adopted groundwater investigation levels, and all hydrocarbon compounds were detected below the limit of reporting with the exception of naphthalene. A small batch of soil samples was selected for SPOCAS analysis and the results indicated that the samples did not contain potential and actual ASS.

Coffey noted in the DSI report that there was a low likelihood of widespread unacceptable impacts associated with hazardous building materials (e.g., asbestos and lead), site fill, hazardous ground gas, and ASS. Based on chemical characterisation of the site soils, Coffey considered that the site fill and near surface soil, if not mixed with asbestos or other materials, could be classified as general solid waste. However, the results of ASS assessment may have been impacted by storage of concrete/cement on site which are generally alkaline in nature and there are recorded detections of ASS on site in the wider development (reported for Stage 1 and 2 development). Asbestos fragments were identified before and the risk of detection of ACM in the surface fills could not be precluded particularly for the area close to the Stage 2 site.

To address the potential contaminations, The Client has engaged EDP to undertake an investigation across the entire site to undertake a contamination, ENM and ASS assessments of both fill and natural soils and develop this updated DSI.

3. OBJECTIVES

The objectives of the updated DSI were to:

- Prepare an updated DSI report in consideration of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (amended in April 2013), NEPC 2013, Canberra;
- Assess the potential for soil contamination to exist at the site and where present, delineate and characterise the extent of contamination;
- Determine the suitability of the site for the proposed development, including any additional investigations or remedial actions that may be required; and
- Assess the in-situ soil at the site in accordance with the NSW EPA Excavated Natural Material Order 2014 (NSW ENM Order) to determine the suitability of the material for beneficial reuse or alternatively to classify the in-situ soil to facilitate offsite disposal of the material, where required.

4. SCOPE OF WORKS

The scope of works for this DSI included the following:

- Review of the existing environmental reports for the site and reports relating to the site history prior to 1954;
- Preparation of a Site Safety Plan (SSP) and Safe Work Method Statement (SWMS);
- Dial Before You Dig (DBYD) search;
- Supervision of underground service location undertaken by a Telstra accredited sub-contractor;
- Inspection of the site by EDP's qualified Environmental Scientists, to identify site characteristics that may be suggestive of site contamination;
- Excavation of 20 systematic test pits across the investigation area to a maximum depth of 1.5 m below ground level (mbgl) using a 3-tonne rubber tracked excavator;

- Excavation of 5 systematic boreholes across the investigation area to a maximum depth of 5.0 m below ground level (mbgl) using a track mounted drill rig;
- Collection of soil samples for chemical characterisation at each test pit and borehole location, including collection of quality control (QC) samples;
- Analysis of samples for CoPC at a National Association of Testing Authorities, (NATA) Australia accredited laboratory, with the remainder on hold pending results;
- Comparison of soil analytical results against the adopted human health criteria for the site, in accordance with NEPM 2013;
- Comparison of results against the NSW ENM Order and NSW EPA Waste Classification Guidelines: Part 1 – Classifying Waste, 2014;
- Development of an Updated Conceptual Site Model (CSM) to rectify data gaps that required additional environmental information;
- Preparation of this updated DSI report in accordance with relevant guidelines for contaminated lands assessment; and
- Proposal of additional assessments or suitable remedial and validation strategies for the site, if required.

5. TECHNICAL FRAMEWORK

- NSW Work Health and Safety Act 2011;
- NSW Work Health and Safety Regulation 2017;
- Contaminated Land Management Act 1997;
- State Environmental Planning Policy No. 55 - Remediation of Land;
- NSW EPA Guidelines for Consultants Reporting on Contaminated Land (April 2020);
- NSW EPA Guidelines for the Site Auditor Scheme, 3rd Edition (2017);
- NSW EPA Protection of the Environment Operations (POEO) Act 1997;
- NSW EPA POEO (Waste) Regulation 2014;
- NSW EPA Excavated Natural Material Order, 2014 (ENM Order);
- NSW EPA Waste Classification Guidelines: Part 1 – Classifying Waste, 2014;
- NSW EPA Contaminated Sites Sampling Design Guidelines, 1995;
- National Environment Protection (Assessment of Site Contamination) Measure, Amendment, 2013;
- Australian Standard (AS) 4482.1 Guide to Investigation and Sampling of Sites with Potentially Contaminated Soil, Part 1: Non-volatile and Semi-volatile Compounds, 2005;
- AS 4482.2 Guide to the Sampling and Investigation of Potentially Contaminated Soil, Part 2: Volatile Substances, 1999; and
- AS 4964 Method for the qualitative identification of asbestos in bulk samples, 2004.

6. PREVIOUS ENVIRONMENTAL INVESTIGATIONS

The following previous environmental investigations provided to EDP were reviewed as part of the assessment.

6.1 Douglas Partners Preliminary Site Investigation (Douglas Partners 2014)

The Client has provided EDP with a previous preliminary site investigation (PSI) undertaken by Douglas Partners of the wider 20 Mann Street site (covering Stages 1, 2 and 3 of the development footprints) (Douglas Partners Ref:75722.00, dated March 2014).

A summary of the prudent information obtained from Douglas Partners 2014 is as follows:

The investigation included a limited site history review and a preliminary sampling and laboratory analytical program. At the time of the investigation, the investigation area was occupied by Gosford Public School, which comprised classrooms, offices and amenity buildings, with the remaining areas comprising a mix of concrete or

asphalt pavements, gardens or grassed areas. The investigation identified two chemical storage rooms within the school. Both were reported to comprise security access doors and concrete slab floors. No spillage incidents were reported.

Historical aerial photographs reviewed by DP indicated that the PSI investigation area had been occupied by the school prior to 1954 (earliest available aerial photograph).

The following areas of environmental concern (AEC) were identified by Douglas Partners 2014:

- Low to moderate potential for presence of contamination in areas of filling across the PSI investigation area;
- Low to moderate potential for presence of remnants/weathering of hazardous building materials across the majority of the PSI investigation area;
- Very low potential for presence of contamination due to incidental spillage of stored chemicals (areas not clearly reported by Douglas Partners); and
- Low to moderate potential for presence of contamination due to incineration of waste in the north eastern portion of the site (within adjacent development footprint, outside current development footprint, thus not further discussed in the PSI report).

In addition, Douglas Partners identified potential presence of hazardous ground gases in the western/central portions of the PSI investigation area, due to decomposition of organic matter with the alluvial soil profile.

- Douglas Partners subsequently undertook a preliminary intrusive investigation comprising 26 borehole locations across the wider PSI investigation area, 13 of which were (Bores 2 to 8, 13, and 22 to 26) were located within the Stage 3 footprint.
- From these 13 boreholes, a total of 16 shallow soil (typically top 0.5m) and one surface fibre cement sample were collected. The majority of the 16 samples were analysed for a broad suite of contaminants of potential concern (CoPC). The fibre cement sample collected at borehole 26 was analysed for asbestos.
- Concentrations of analytes were detected below the adopted low-density residential health based investigation levels (HIL-A and HSL-A). Asbestos was not detected in the samples analysed with the exception of one asbestos detection in the fibre cement sample collected at borehole 26 located at the south-eastern corner.
- Hazardous ground gas monitoring was undertaken at Bores 4, 6, 8, and 23 within the Stage 3 footprint. Detectable levels of methane were recorded in Bore 23 at concentrations below the adopted screening level of 1.25 %.

Based on the findings Douglas Partners concluded that isolated asbestos fragments were identified on the ground surface, including Bore 26 located at the south-eastern corner of the Stage 3 footprint. The asbestos fragments were likely associated with demolition of former structures at the site, and considered the asbestos impact was not widespread.

Douglas Partners recommended the implementation of an Unexpected Find Protocol to manage the asbestos risks during site clearance and demolition. Following the demolition, the site surface should be reassessed for asbestos contamination.

Organic materials present within the subsurface are generating methane gas. Douglas Partners recommended that further assessment be carried out to address the potential methane impacts.

6.2 Coffey Detailed Site Investigation (Coffey 2019)

In 2018 St Hillers engaged Coffey Services Australia Pty Ltd (Coffey) to undertake a contamination Detailed Site Investigation of the stage 3 development site (Coffey Ref: SYDGE214942-AC_Rev4, dated August 2019) (Coffey 2019). The investigation included the excavation of nine geotechnical soil boreholes (BH1 to BH9), eight push tube holes (P1-P8), three test pits (TP1-TP3), five surface sample locations (SS1-SS5) and two hand auger boreholes (HA1-HA2). Three geotechnical boreholes were subsequently converted into groundwater monitoring wells and hazardous gas monitoring wells (MW1-3). During the assessment construction equipment and stored materials were on site which presented limitations for this DSI as the footprints of these areas could not be assessed.

The following AEC associated with land contamination were identified by Coffey 2019:

- Remnant hazardous building materials;
- Incidental spillage at chemical storage rooms;

- Contamination in site fill; and
- Hazardous ground gas.

A summary of the information obtained by Coffey 2019 that is relevant to this updated DSI includes the following:

- Based on field observations, a layer of fill was encountered across the majority of the site up to depths of 1.6 mbgl (but typically less than 1 mbgl).
- Concentrations of chemicals analysed were below the adopted soil investigation levels (HIL-B, HSL-B, Residential Management Limits), with the exception of carcinogenic PAH (as benzo(a)pyrene TEQ) at one location (BH8 0.0-1.0 m) at a concentration of 5.3 mg/kg marginally above the HIL-B of 4 mg/kg.
- With the exception of copper, concentrations of chemicals analysed were below the adopted groundwater investigation levels (protection of marine aquatic ecosystem, recreational water, HILB HSL-A/B) and, specifically, hydrocarbon compounds were detected below laboratory limits of reporting (LOR) with the exception of naphthalene. Trace levels of naphthalene were detected at concentrations up to 0.00017 mg/L (MW2), below the USEPA Tap water criteria.
- Copper (0.002 mg/l) within one groundwater location (MW2) marginally exceeded the investigation level for protection of marine aquatic ecosystem of 0.0013 mg/L. However, the detected concentration is considered typical of background concentration in an urban setting.
- Methane was detected up to 0.7 % (v/v), below the adopted screening level of 1.25 %. No positive gas flow was recorded in any of the wells monitored.
- pH-FOX were detected above pH3 with the exception of one sample and sulfur (KCl extractable) and Peroxide Oxidisable Sulfur were both detected below laboratory's limits of reporting.
- A preliminary waste classification assessment of General Solid Waste was provided for the site fill provided the material was not mixed with asbestos, pending further confirmation testing including toxicity characteristic leaching procedure (TCLP).

Based on the findings, Coffey considered the site can be made suitable for the proposed mixed use residential/commercial development, subject to the following:

- Offsite disposal of basement excavation be managed in accordance with Waste Classification Guidelines and regulations. Following the removal of the construction equipment and material sorted during the DSI, an additional assessment should be carried out comprising a visual assessment of the footprints of the construction equipment and material storages as well as confirmation sampling and laboratory testing of the fill and surface soils to supplement the preliminary waste classification.
- Coffey also recommended implementation of an Unexpected Finds Protocol during excavation and construction, to address potential presence of asbestos (if any) and to mitigate risks associated with new finds of previously undetected contamination.

7. SITE INFORMATION

7.1 Site Identification

Site identification details are summarised in **Table I** and the location of the site is shown on **Figure I**, provided in **Appendix A**.

Table I: Site Identification

| Site Identification | |
|-----------------------|---|
| Site Address: | 26-30 Mann Street, Gosford NSW |
| Legal Identification: | Lot 111 in DP 1265226, Lot 469 in DP 821073, Lots 2-7 in DP 14761. |
| Local Government Area | Central Coast Council |
| Site Area: | 8,884 m ² |
| Current Zoning: | B4 – Mixed Use under the State Environmental Planning Policy (Gosford City Centre) 2018 |

| Site Identification | |
|---------------------|--|
| Former Land Use | The site was the former Gosford Public School until its demolition in 2014. More recently, the site has been used as a construction yard, temporary offices, car parking and storage for the adjoining Stage 1 and 2 developments. |
| Current Land Use: | Vacant land |
| Locality Map | Figure 1 |
| Site Layout | Figure 2 |

7.2 Site Description

The site description is based on visual observations made during fieldworks undertaken by EDP environmental consultants on the 1 October and 2 October 2020:

- Access to the site is from Vaughan Avenue, off Dane Drive.
- The site is predominantly vacant having recently been used as a construction yard for Stages 1 and 2 of the development.
- Site surfacing was predominantly asphalt hardstand and gravels with patchy grass cover present within the north east boundary.
- A shipping container was located adjacent the eastern boundary and minor amounts of stored building materials remained within the central portion of the site.
- A concrete crib retaining wall was situated along the eastern boundary with an approximate height of 2m.
- Large mature trees were present within the eastern boundary of the site adjacent the crib wall.
- No staining or asbestos fragments were visible to the ground surface at the site.
- The site was generally flat with a sloped earthen mound present within the eastern boundary to the crib wall.
- Numerous building materials were observed within the earthen mound surface soils (bricks, tiles, crushed concrete etc).

7.3 Surrounding Land Use

The site was located in the immediate vicinity of a mixed commercial/public recreational area within the suburb of Gosford. The site was bound to the:

- North and north east by recently constructed commercial buildings (Stage 1 and 2 of the development).
- East by Mann Street and multiple commercial buildings to the east of Mann Street;
- South by Vaughan Avenue, beyond which is Gosford Park.
- West by Gosford City Park.

7.4 Historical Aerial Photograph Review

The following historical descriptions of the site have been based on available online resources, in addition to aerial photographs described within Douglas Partners 2014.

Table 2: Historical Land Use

| Year: | Description of Site: |
|-------|---|
| 1954 | The site comprises Gosford Public school with a number of large buildings (classrooms) present within the western and central sections of the site. The remaining portion of the site comprises hardstand with vegetation and mature trees along the eastern perimeter. |
| 1966 | The site remained unchanged from the previous image. |
| 1975 | Some small buildings within the school appear to have either been constructed or removed since the 1966 photograph. |
| 1994 | The site appears to have generally remained unchanged, with the exception of some additional buildings (classrooms) visible adjacent to both the eastern and western boundaries within the southern portion of the site. |
| 2002 | The site remained unchanged from the previous image. |

7.5 Site History Prior to 1954

The Client provided EDP with a Baseline Archaeological Assessment undertaken by Archaeological Management and Consulting Group (AMAC Group) of the site (AMAC Group Ref: Baseline Archaeological Assessment – Central Coast Quarter – 26 Mann St, Gosford NSW, dated August 2019) (AMAC Group 2019).

A summary of the prudent information obtained from AMAC Group 2019 is as follows:

- The northern portion of the site was part of land used as police paddocks from the 1840's.
- The southern portion of the site was part of three original land grants that were used as privately-owned paddocks.
- No development occurred on the site until the mid-20th century when the Gosford Public School was established.

8. ENVIRONMENTAL SETTING

8.1 Topography and Drainage

A review of the NSW Government National Map online database (<http://www.nationalmap.gov.au/>) accessed 14 October 2020, indicated that the site is located at an elevation of approximately 3 m Australian Height Datum (AHD) across the site. The earthen mound adjacent the eastern boundary is located at an elevation of approximately 6m AHD. Surface water from the site is anticipated to discharge to the south west towards Brisbane Waters.

8.2 Regional Geology

A review of the 1:100,000 Central Coast Coastal Quaternary Geological Map, indicated that the soils within the eastern portion of the site are generally underlain by Terrigal Formation (Rnt) comprising residual clays overlaying interbedded siltstone, shale and fine to coarse grained quartz-lithic sandstone with minor claystone lenses. The western portion of the site is generally underlain by disturbed terrain and alluvium.

8.3 Acid Sulfate Soils

A review of Acid Sulfate Soil information contained within the online Australian Soil Resource Information System (ASRIS) database (http://www.asris.csiro.au/index_ie.html), accessed on 14 October 2020, indicated there was a high probability/high confidence of acid sulfate soils occurring beneath the site.

Further review of Council's Acid Sulfate Soils Risk Map indicates that the site is situated within Class 2 Terrain. Class 2 terrain indicates that development consent is required where works are expected to occur below the natural ground surface, or by which the water table is likely to be lowered.

Based on the intrusive sampling/investigation conducted at the site, potential acid sulfate soils are known to exist within the natural subsoil materials underlying the fill at the site. The management of Acid Sulfate Soils at the site are to be managed under a site specific Acid Sulfate Soils Management Plan (ASSMP) to be prepared for the site.

8.4 Hydrology

A review of the New South Wales Department of Primary Industries (DPI) Office of Water Groundwater Works database online (<http://allwaterdata.water.nsw.gov.au/water.stm>) accessed 14 October 2020, indicated that there were two licensed groundwater bores situated within 500m of the site. Standard water levels were not reported. A summary of the bores is presented in **Table 2**. Given the proximity to Brisbane Water, shallow groundwater subject to tidal influence, likely flowing in a west to south-westerly direction towards Brisbane Water, is expected in the underlying alluvial profiles.

Table 2: Summary of Local Licensed Groundwater Bores

| Bore ID | Location | Total Depth | Approved Use |
|----------|-----------------|-------------|---|
| GW201892 | 100 m northwest | 78 m | Recreational (irrigation of playing fields) |
| GW201679 | 150 m northwest | 102 m | License cancelled |

8.5 Proximity to Local Sensitive Environments

No surface water bodies were noted to be present at the site. The nearest offsite sensitive receptor appears to be Brisbane Water, approximately 150m to the south west of the site.

8.6 Public Records

8.6.1 NSW EPA Contaminated Lands Database

A search of the NSW Environmental Protection Authority public register of Notices issued under the Contaminated Land Management Act 1997 accessed 15 October 2020 indicated nothing registered for the Site. The closest registered site is located approximately 1.1 km west of the site. The register was searched for Central Coast Council local government authority.

8.6.2 NSW EPA Contaminated sites Notified to EPA

A search of the NSW Environmental Protection Authority public register of Contaminated Sites Notified to the EPA accessed 15 October 2020 indicated that nothing registered for the Site. The closest registered site is located approximately 1.1 km west of the site.

9. PRELIMINARY CONCEPTUAL SITE MODEL

A Preliminary conceptual site model (CSM) was developed based on the information obtained during the preliminary investigation process, to allow assessment of potential sources of impact, chemicals of concern, transport mechanism and receptors.

9.1 Areas of Environmental Concern

Based on the information gathered during the desktop study and visual observations made during the site inspection, Areas of Environmental Concern (AEC) and associated Contaminants of Potential Concern (CoPC) are summarised in **Table 3**.

Table 3: Contaminants of Potential Concern

| AEC | Potential Source | CoPC |
|--------------------------------|--|---|
| Site surface | Poor demolition practices of former structures | Hazardous building materials |
| Fill material across the site. | Uncontrolled historic filling | Heavy metals, TRH, BTEXN, PAHs, OCP/OPP, PCBs and asbestos. |

TRH - Total recoverable hydrocarbons;

BTEXN - Benzene, toluene, ethylbenzene, xylenes and naphthalene;

PAHs - Polycyclic aromatic hydrocarbons;

OCP/OPP - Organochlorine, organophosphate pesticides; and

PCBs - Polychlorinated Biphenyls.

9.2 Potential Transport Medium

The anticipated primary transport media for the migration of contaminants of concern are:

- Migration of contaminated material through erosion and dust during construction works; and
- Contaminant movement through surface water runoff.

9.3 Potential Receptors

Considering the planned soil disturbance during upcoming works and the potential sources of contamination outlined above, the potential receptors from contamination, if present, were considered to comprise:

- Workers on-site during excavation, construction or maintenance works;
- Future site users/occupants;
- Occupiers/visitors to surrounding sites; and
- Terrestrial ecosystems (particularly transitory wildlife) from direct uptake and diffusion of CoPC in soil.

9.4 Potential Migration Pathways

There are several mechanisms by which identified receptors may come into contact with contaminated sources, including the following:

- Inhalation of contaminants in potentially impacted soil;
- Direct contact (dermal or incidental ingestion) of potentially contaminated soil/hazardous building materials;
- Surface runoff and stormwater drainage system; and
- Direct uptake and diffusion of CoPC in soil (terrestrial ecosystem).

10. SOIL ASSESSMENT CRITERIA

To assess the significance of contaminant concentrations in soil, reference was primarily made to NEPM 2013, specifically 'Schedule B1 Guideline on Investigation Levels for Soil and Groundwater' (Schedule B1) for assessment criteria, where available. Schedule B1 provides a framework for the use of investigation and screening levels based on human health and ecological risks. In the absence of relative criteria in NEPM 2013, reference was made to other nationally or state endorsed guidelines.

National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013) (NEPC 2013, Canberra) (hereafter NEPM) provides a national framework for conducting assessments of contaminated sites in Australia.

The purpose of the NEPM is to establish a nationally consistent approach to the assessment of site contamination to ensure sound environmental management practices by the community which includes regulators, site assessors, environmental auditors, landowners, developers and industry.

The NEPM addresses assessment of contamination and does not provide specific guidance on prevention of site contamination. The desired environmental outcome for the NEPM is to provide adequate protection of human health and the environment, where site contamination has occurred, through the development of an efficient and effective national approach to the assessment of site contamination.

NEPM provides a framework for the use of investigation and screening levels for the protection of human health, ecosystems, groundwater resources and aesthetics. Investigation levels and screening levels are applicable to this site assessment. The adopted investigation and screening levels for this assessment are as follow:

- i) Health Investigation Levels (HILs); and
- ii) Health Screening Levels (HSLs).

These assessment criteria are discussed in the sections below.

Given the proposed basement slab will generally cover the entire site, ecological investigation levels (EIL) and ecological screening levels (ESL) have not been considered for this assessment.

10.1 Health Investigation Levels

HILs are scientifically based, generic assessment criteria designed to be used in the Tier 1 assessment for assessing human health risk via all relevant pathways of exposure. HILs are designed to be intentionally conservative and based on a reasonable worst-case scenario for the following generic land use settings:

- A Residential with garden/accessible soil (home grown produce contributing less than 10% of vegetable and fruit intake; no poultry) - this category includes children's day-care centres, preschools, and primary schools.
- B **Residential with minimal opportunities for soil access, including dwellings with fully and permanently paved yard space such as high-rise apartments and flats.**
- C Public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves), which should be subject to a site-specific assessment where appropriate.
- D Commercial/industrial includes shops and offices as well as factories and industrial sites.

Due to the proposed site use, for mixed residential (high density) and commercial purposes contaminant concentrations will be assessed against the HIL applicable to high density residential land use (HIL-B) from the NEPM 2013.

10.2 Health Screening Levels

NEPM 2013 adopts the Health Screening Levels (HSLs) for various petroleum hydrocarbon compounds developed by the Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE).

The HSLs apply to the same landuse scenarios as the HILs, with additional consideration of soil texture and depth to determine the appropriate soil, groundwater and soil vapour criteria.

The NEPM 2013 provides HSL fractions and corresponding equivalent carbon range for petroleum hydrocarbon compounds. HSLs are given only for F1, F2 and BTEX as the heavier petroleum compounds of F3 and F4 are non-volatile and do not pose a concern for vapour intrusion. However, exposure can be via direct contact pathways (dermal contact, incidental oral ingestion and dust in halation). Friebel and Nadebaum 2011 provides the HSLs for direct contact, however for most site assessments, these levels are unlikely to trigger further investigation or site management as the values are substantially higher than most soil screening levels.

Table 4 – Health Screening Levels for TRH Contaminants

| Fraction Number | Equivalent Carbon Number Range |
|-----------------|--------------------------------|
| F1 | C6 – C10 |
| F2 | >C10 – C16 |
| F3 | >C16 – C34 |
| F4 | >C34 – C40 |

As discussed above, HSLs for soil, groundwater and soil vapour have been developed based on soil texture. The HSLs assume a uniform soil profile and the highest proportion of the soil texture from the soil profile should be used selecting the appropriate HSLs. For Tier 1 soil assessment, the HSL classifications of sand, silt and clay may be broadly applied to soil texture classification in Table A1 of Australian Standard 1726 as follow:

Coarse grained soil: >50% of particles (by weight) <63mm and >0.075mm

- Sand: >50% of particles (by weight) <2.36mm; or
- Gravel: >50% of particles (by weight) >2.36mm.

Fine-grained soil: >50% of particles (by weight) <0.075mm

- Silts and clays (liquid limit >50%);
- Silts and clays (liquid limit <50%); or

- Highly organic soils.

10.3 Resource Recovery and Waste Classification

For the purposes of this assessment, reference has also been made to the criteria provided in the NSW EPA *Excavated Natural Material Order 2014* (NSW ENM Order), to determine whether the in-situ material on-site is suitable for beneficial reuse.

The adopted ENM criteria for this assessment is outlined in **Table D2** provided in **Appendix B**.

10.3.1 Waste Classification

Reference was made to the NSW EPA Waste Classification Guidelines criteria to assess the offsite disposal classification of the in-situ soils at the site. Waste can be classified as:

- General solid waste.
- Restricted solid waste.
- Hazardous waste.
- Special Waste (including asbestos waste, waste tyres and clinical waste).

Chemical contaminants were compared with the contaminant threshold (CT) values outlined in the NSW Waste Classification Guidelines. If a waste's specific contaminant concentration (SCC) value exceeded a CT, further assessment using toxicity characteristic leaching procedure (TCLP) test was conducted.

If any SCC or TCLP threshold values were exceeded for general solid waste, the waste must be classified as restricted solid waste. If any SCC or TCLP threshold values were exceeded for restricted solid waste, the waste must be classified as hazardous waste.

The adopted waste classification criteria for this assessment is outlined in **Table D3** provided in **Appendix B**.

10.4 Assessment Criteria Summary

Soil health investigation levels (HILs), soil health screening levels (HSLs) and petroleum hydrocarbon management limits were adopted from Schedule B1 of NEPM 2013. Schedule B1 provides a framework for the use of investigation and screening levels based on human health and ecological risks. In the absence of relative criteria in NEPM 2013, reference was made to other nationally or state endorsed guidelines, including CRC CARE 2011.

The following points summaries the key legislation used as reference for the conclusions in this report:

- Soil HILs were used to assess human health risk via all relevant exposure pathways of exposure for metals and organic substances. HILs are concentrations below which contaminants in soils are not considered to adversely affect human health and are based on differing land use scenarios;
- Soil HSLs for selected petroleum compounds and fractions were considered applicable to assessing human health risk via vapour intrusion and inhalation. Criteria relevant to a coarse grained soil type and depths of 1 to 2 m were selected based on a conservative approach and the proposed depths associated with planned earthworks at the site; and
- Soil HSLs were also adopted from CRC CARE 2011 were used to assess the exposure pathway of direct contact (oral ingestion, dermal contact, and dust inhalation) for workers (maximum depth of 1.0 m) and vapour intrusion for intrusive maintenance workers. As a conservative approach, a sandy soil type and depth of 0- <2 m was adopted.

The HILs and HSLs adopted are outlined in **Table D1**.

II. SOIL SAMPLING, ANALYSIS PLAN AND SAMPLING METHODOLOGY

II.1 Analytical Results

The details of the sampling team (see Error! Reference source not found.) and duties were as follows:

Sample collector:

- Soil sample collection according to sampling regime;
- Described soil horizon features;
- Responsible for decontamination between sampling;
- Identified testing location and depth of profiles;
- Labelled sample containers;
- Recorded field conditions current at sampling into the sample log;
- Recorded soil profile information;
- Nominated field duplicates at the nominated ratio; and
- Recorded analytes to be tested for each sample.

Table 6 – Sampling Team Personnel

| Personnel | Position | Qualifications | Project Task |
|----------------|----------------|---|---|
| Matthew Konza | HSE Consultant | Bachelor of Science Workcover Construction Work in NSW (White Card) Manual Handling Training | Conduct site observation and visual assessment Contractor Instruction Sampling Location Selection Soil Sampling Record soil description |
| Lochlan Browne | HSE Consultant | Bachelor of Science Masters of Environmental Science Workcover Construction Work in WA (White Card) Senior First Aid Certificate Manual Handling Training | Conduct site observation and visual assessment Soil Sampling Record soil description |

11.2 Sampling Regime

The fieldwork for the assessment was devised to address the issues identified as potential for contamination as detailed in Section 9. The sampling objective was to gather information with regard to the type, location, level and extent of potential contamination due to the historical landuses at the site to determine the suitability of the material for reuse. This process provided sufficient supporting data (according the DQO's) to allow recommendations to be made on whether the possible site contamination is compliant with the proposed landuse and the environmental concerns.

For this assessment, the selection of the sampling locations was formed based on a systematic sampling pattern. Samples were collected based loosely on a gridded pattern in locations accessible for sampling, with sampling locations relatively well distributed across the site. When selecting sample locations, consideration was given to the sample locations of the previous environmental assessment conducted at the site. The sampling density adopted for the assessment was consistent with the minimum sampling density recommended for site characterisation based on detection of impacted soil hotspots with a diameter of approximately 25.0 m with 95% confidence, using a systematic 'grid-based' sampling pattern as described in NSW EPA 1995, AS4482.1-2005 and NEPM 2013 for an investigation area of 8,884 m².

Details of the samples collected and analysed as part of this investigation are provided in **Table 7** below. Details of the samples collected and analysed as part of this investigation are provided in **Appendix E**.

Table 7 – Soil Sample Location and Justification

| Sample Location | Date | Justification |
|-----------------|----------------|--|
| TP01 | 1 October 2020 | Within area of historical filling |
| TP02 | 1 October 2020 | Within area of historical filling |
| TP03 | 1 October 2020 | Within area of historical filling |
| TP04 | 1 October 2020 | Within area of historical filling |
| TP05 | 1 October 2020 | Within area of historical filling |
| BH01 | 2 October 2020 | Within natural soils suspected to be ASS |
| TP06 | 1 October 2020 | Within area of historical filling |

| Sample Location | Date | Justification |
|-----------------|----------------|--|
| TP07 | 1 October 2020 | Within area of historical filling |
| BH05 | 2 October 2020 | Within natural soils suspected to be ASS |
| TP08 | 1 October 2020 | Within area of historical filling |
| TP09 | 1 October 2020 | Within area of historical filling |
| TP10 | 1 October 2020 | Within area of historical filling |
| TP11 | 1 October 2020 | Within area of historical filling |
| TP12 | 1 October 2020 | Within area of historical filling |
| TP13 | 1 October 2020 | Within area of historical filling |
| BH02 | 2 October 2020 | Within natural soils suspected to be ASS |
| TP14 | 1 October 2020 | Within area of historical filling |
| TP15 | 1 October 2020 | Within area of historical filling |
| BH03 | 2 October 2020 | Within natural soils suspected to be ASS |
| TP16 | 1 October 2020 | Within area of historical filling |
| BH04 | 2 October 2020 | Within natural soils suspected to be ASS |
| TP17 | 1 October 2020 | Within area of historical filling |
| TP18 | 1 October 2020 | Within area of historical filling |
| TP19 | 1 October 2020 | Within area of historical filling |
| TP20 | 1 October 2020 | Within area of historical filling |

11.3 Chemical Contaminant Sample Collection - Soil

Sampling of soils was conducted using the following methodology:

- Visual inspection for indications of contamination within test pits and on the site surface during sampling, ensuring any visually contaminated media is assessed;
- Samples were collected within areas identified to have a potential impact from former and/or current site uses;
- Sample collection was conducted on a systematic based sample regime (see **Figure 2**);
- Soil samples were recovered from each sample location using plant equipment (excavator / ute mounted drill rig);
- Samples collected directly from the excavator bucket/ drill rig augur, with an intent to collect only media that had not come into direct contact with any equipment, ensuring no cross contamination was occurring;
- Soil samples were collected in laboratory supplied 250 mL glass jars and foreign material bags;
- Excess soil was backfilled and trackroll compacted; and
- Samples were then placed in a chilled container and forwarded to a NATA registered laboratory for analysis under Chain of Custody (COC) conditions. A copy of the COC is provided in **Appendix F**. The laboratory issued confirmation of sample receipt intact.

11.3.1 Suspected Asbestos Containing Material Fragments

Several ACM fragments (3–4 fragments) were observed within the media excavated from TP19. A single suspected ACM fragment was collected as part of the investigation (AS001). The fragment was then placed in the airtight container and transported to a NATA registered laboratory for analysis under Chain of Custody (COC) conditions. A copy of the COC is provided in **Appendix F**. The laboratory issued confirmation of sample receipt intact.

12. QUALITY ASSURANCE AND QUALITY CONTROL

EDP implements quality assurance/quality control (QA/QC) procedures to improve transparency, consistency, comparability, completeness, and confidence in the data collected. The field and laboratory QA/QC procedures, results, and compliance with data quality indicators (DQIs) define the acceptable level of error required for this assessment.

The field and laboratory QA/QC procedures adopted and summary of results for the assessments at the site are provided in **Appendix E**.

13. RESULTS

13.1 Subsurface Profile

With the exception of TP19, the soil profile was generally consistent across the investigation area, described as brown clayey SAND to sandy CLAY with gravels and anthropogenic inclusions of crushed concrete, tile, blue metal gravels, terracotta piping and asphalt. No asbestos materials, hydrocarbon odour or staining was evident. The depth of fill varied across the site ranging from 0.5m up to 1.5m. The fill material was underlain by a dark brown/black fine-grained clayey SAND and stiff grey CLAY. An organic odour was noted at TP11 and TP17.

The subsurface profile of TP19 adjacent the northern boundary of the investigation area was described as fill comprising a dark brown, gravelly sandy CLAY with numerous anthropogenic inclusions of scrap metal, bricks, terracotta, timber, blue metal gravels and minor amounts of ACM fragments. No hydrocarbon odour or staining was evident.

Borehole and test pit logs are presented in **Appendix C**.

13.2 Schedule of Laboratory Analysis

Envirolab Services Pty Ltd (Envirolab) (NATA #2901) and ALS Environmental (NATA #825) were engaged as the primary and secondary (or 'check') laboratories, respectively, for the chemical testing undertaken.

13.3 Soil Chemical analysis in accordance with NEPM 2013

A review of the analytical results for the chemical contaminants indicated that with the exception of heavy metals, select PAHs and TRH fractions the concentrations of CoPC were less than the laboratory practical quantitative limits (PQLs). All results were less than the adopted investigation and screening levels for each sample analysed.

The results are detailed in the attached NATA accredited laboratory report provided in **Appendix F** with the results and assessment criteria summarised in **Tables D1-D3** provided in **Appendix D**. The borehole locations are shown on **Figure 2**

13.4 Asbestos Bulk Sample Results

One suspected asbestos fragment sample was submitted for confirmatory laboratory analysis for the presence of asbestos. The results indicated the positive identification of asbestos with a combination of chrysotile (white asbestos) and amosite (brown asbestos) identified. The results are detailed in **Table D3** and the NATA certificate of analysis included in **Appendix F**.

Table 5 – Summary of Asbestos Bulk Sample Laboratory Results

| Sample No. | Date sampled | Sample Location | Type | Asbestos Identified | Factual Description |
|------------|----------------|-----------------|------|------------------------|-----------------------|
| AS001 | 2 October 2020 | TP19-0.5m | ACM | Chrysotile and Amosite | Fibre cement material |

13.5 Asbestos in Soil Sample Results

Laboratory results for the 36 soil samples collected and analysed indicated that asbestos fibres were not identified in the soil samples analysed.

13.6 Soil Chemical Analysis in accordance with the ENM Order

A review of analytical results, with reference to the NSW EPA ENM Order indicated the following:

- Benzo(a)pyrene (BAP) concentration of 1.5 mg/kg was detected in sample TP03_0.1 in exceedance of the absolute maximum concentration for characterisation (1 mg/kg) as detailed in Table 4 of the NSW ENM Order.
- Lead concentrations of 72 mg/kg and 55 mg/kg were detected in samples TP01_0.1 and TP03_0.1 respectively, in exceedance of the maximum average concentration for characterisation (50 mg/kg) however were below the absolute maximum concentration for characterisation (100 mg/kg) as detailed in Table 4 of the NSW ENM Order.
- Nickel concentrations of 43 mg/kg and 34 mg/kg were detected in samples TP02_0.1 and TP20_0.1 respectively, in exceedance of the maximum average concentration for characterisation (30 mg/kg) however were below the absolute maximum concentration for characterisation (60 mg/kg) as detailed in Table 4 of the NSW ENM Order.
- TRH C₁₀-C₃₆ concentration of 290 mg/kg were detected in sample TP13_0.3 and in exceedance of the maximum average concentration for characterisation (250 mg/kg) however were below the absolute maximum concentration for characterisation (500 mg/kg) as detailed in Table 4 of the NSW ENM Order.
- All other contaminant concentrations analysed were less than the laboratory PQLs or less than the maximum average concentration as detailed in Table 4 of the NSW ENM Order.
- A review of the analytical results indicated that the overall average pH and EC demonstrated compliance with the requirements of the NSW ENM Order.

Exceedances are shown on **Figure 3** provided in **Appendix A**.

13.7 Foreign Materials in accordance with the ENM Order

A review of analytical results, with reference to the NSW EPA ENM Order indicated the following:

- Foreign materials detected in seven samples (TP08_0.2, TP09_0.1, TP11_0.1, TP13_0.3, TP14_0.3, TP15_0.1, TP15_1.0 and TP16_0.1) in exceedance of the absolute maximum concentration for characterisation (0.1 %) as detailed in Table 4 of the NSW ENM Order. Exceedances ranged from 0.1 % to 0.71 % with the highest concentration of foreign materials were identified within sample TP15_0.1.
- Foreign material concentrations of 0.07 % were detected in sample TP10_0.9 in exceedance of the maximum average concentration for characterisation (0.05 %) however were below the absolute maximum concentration for characterisation (0.1 %) as detailed in Table 4 of the NSW ENM Order.
- All other foreign material concentrations were less than the laboratory PQLs or less than the maximum average concentration as detailed in Table 4 of the NSW ENM Order.

Exceedances are shown on **Figure 3** provided in **Appendix A**.

13.8 Acid Sulfate Soils

Thirty-six selected soil samples were initially analysed for presence of acid sulfate soils by way of an acid sulfate soil field screen. A review of analytical results indicated the following:

- pH-F (prior to oxidation) ranged between pH4.8 and pH6.7; and
- pH-FOX (following oxidation) ranged between pH2.6 and pH6.7 (six samples recorded pH-FOX <3).

Twenty-two selected soil samples were further analysed using the chromium reducible sulfur analysis. Analysis identified soils with moderate potential acidity, though mild oxidisable sulfur, indicating although being acid sulfate soils, other acidity sourced (i.e. organic matter) are present that contribute greater acidity than pyrite sulfur. An in-depth result summary and discussion is to be included in an Acid Sulfate Soil Management Plan to be prepared for the site.

13.9 Waste Classification

Soil analytical results of the overlying fill material were compared against the NSW EPA Waste Classification Guidelines 2014, for the purpose of providing an in-situ waste classification for the material to facilitate offsite disposal, where required.

When compared against the waste classification guidelines, the results indicated that with the exception of lead, nickel and BaP, concentrations of CoPC were less than the Contaminant Threshold (CT) and/or Specific Contaminant Concentrations (SCC) for General Solid Waste (CT1/SCC1) without associated leachate criterion (TCLP1). Lead, nickel and BaP concentrations were further assessed using the SCC/TCLP test, with all results less than the SCC and TCLP for General Solid Waste (<SCC1/TCLP1).

Based on the identification of ACM within TP19, the classification of the soils within this location will be Special Waste (asbestos waste) with chemical classification of General Solid Waste (non-putrescible).

14. DISCUSSION

14.1 Fill Layer

The intrusive investigation (test pits advanced with excavator) identified a fill layer of varying depth (0.5m to 1.5m) across the site, with varying quantities of foreign materials. The fill material at TP19 varied notably, comprising various building materials, scrap metal, blue metal gravels and non-friable asbestos-containing fibre cement fragments.

Soil samples were collected at twenty locations across the site for the purpose of chemical contaminant analysis. Each sample was submitted for laboratory analysis at a NATA accredited laboratory (Envirolab Services). All analytical results for Contaminants of Potential Concern were below the adopted contaminant thresholds. With the exception of TP19, fill material encountered during the investigation was comparable to both previous investigations undertaken by Douglas partners 2014 and Coffey 2019.

Based on the fieldwork undertaken, review of analytical results and within the constraints and limitations of the assessment, EDP considers that chemical contaminants within the fill material have not been identified that would indicate gross contamination within the soils assessed onsite. As such, the risk to human health associated with chemical contaminants within the soils planned to be disturbed during upcoming works at the site is considered to be low.

14.2 Asbestos Containing Material

ACM in the form of several fibre cement fragments were found to be present within the fill profile within TP19 adjacent the northern boundary of the site. No ACM was identified to the ground surface within the investigation area, within any other test pit locations or within soil samples submitted for laboratory analysis. EDP consider the asbestos present at the site to represent minor contamination which is localised within the vicinity of TP19 given the subsurface profile varied significantly to that of the rest of the site.

Given that the ACM was identified at depth (0.5 m), EDP considers the risk to future site users to be low. However the identification of minor amounts ACM fragments within the soil media at TP19 presents a risk to potential receptors, including site workers throughout the construction works, neighbouring site users and future occupiers of the site. These risks must be managed throughout the proposed construction and earth works, to mitigate the risks posed to potential receptors.

In consideration that the proposed basement excavation will effectively remove the ACM, EDP considers the implementation of a site-specific Asbestos Management Plan (AMP) incorporated into a Construction Environmental Management Plan to be suitable for the management of the minor asbestos-impacted hotspot. The AMP should detail the removal and disposal of the asbestos-impacted hotspot, subsequent validation by a suitably qualified Environmental Consultant/Licensed Asbestos Assessor (LAA) and incorporate an unexpected finds protocol for the site. EDP consider the ACM find to be consistent with the findings of the previous investigations, is minor in nature and does not require a specific remediation protocol to be managed appropriately.

14.3 Excavated Natural Material (ENM) Assessment

A soil reuse assessment was undertaken to determine whether fill material to be excavated at the site was compliant with the NSW ENM Order. The assessment identified BAP concentrations in one sample (TP03_0.1) and foreign materials within seven samples (TP08_0.2, TP09_0.1, TP11_0.1, TP13_0.3, TP14_0.3, TP15_0.1, TP15_1.0 and TP16_0.1) in exceedance of the absolute maximum concentration for characterisation as detailed in Table 4 of the NSW ENM Order. Consequently, the material is currently not considered compliant with the NSW EPA *Excavated Natural Material Order 2014* and is not suitable for reuse in consideration of the conditions of the order and the exemption.

Field observations made during the in-situ investigation identified a varying amount of foreign materials within fill material at the site. Consequently, if sections of fill material with minor amounts of foreign material are identified during bulk excavation, this material should be stockpiled separately within the site. Additional assessment of the stockpiled material can be undertaken to determine whether the material is compliant with the NSW EPA *Excavated Natural Material Order 2014*.

14.4 Acid Sulfate Soils

Chromium reducible sulfur analysis was conducted to determine the presence of Actual Acid Sulfate Soils (AASS) or Potential Acid Sulfate Soils (PASS) within 22 samples at the site. Analysis identified soils with acid pH though only minor presence of oxidisable sulfur, indicating a minor potential acid sulfate soil condition. In-depth result summary and discussion is to be included in an Acid Sulfate Soil Management Plan to be prepared separately for the site.

15. UPDATED CONCEPTUAL SITE MODEL

The CSM for the site was updated following the additional data obtained through the sampling and analysis undertaken as part of this updated DSI. The updated CSM has been developed based on the actual sources of impact, chemical concern, transport mechanisms and receptors.

15.1 Sources of Impact

Based on the analysis of soil samples, this investigation has determined that the site has been impacted by historical activities undertaken at the site. Due to the nature of the site, the origin of the contaminants cannot be definitively determined, although evidence suggests that uncontrolled historic filling may be the likely source of contamination.

Minor potential ASS was identified within natural materials underlying the identified fill materials at the site. These will be managed in accordance with the Acid Sulfate Soils Management Plan to be prepared for the site.

15.2 Contaminants of Concern

Based on the site observations and soil analysis, non-friable ACM fragments (bonded asbestos) are the contaminant of concern identified at the time of assessment. Based on an understanding of the proposed development, site observations and quantification of these contaminants, it was determined that the minor isolated occurrence will be managed during the development stage with minimal risk.

15.3 Fate, Transport and Exposure

15.3.1 Asbestos Containing Material Fragments

The inhalation of asbestos fibres is known to cause lung cancer, mesothelioma, asbestosis, and cancer of the larynx & ovary. The primary exposure pathway of friable asbestos is the inhalation of asbestos contaminated soils or dust.

Bonded asbestos only poses a significant risk to site users when crushed, broken, or weathered, causing the release of asbestos fibres (friable asbestos).

15.4 Potential Onsite Receptors

- Construction workers during development of the site;
- Current and future users of the site; and
- Maintenance workers who may disturb soil at the site.

15.5 Potential Surrounding Receptors

Due to the nature of the identified contaminants of concern, there is minor risk to surrounding site users only if soils are disturbed and dust is generated, or if ACM is crushed or broken, and friable fibres are released. During proposed soil disturbance, site controls must be implemented to prevent potential impact to surrounding receptors.

16. CONCLUSION AND RECOMMENDATION

Based on a review of the information outlined in this report, observations made as part of the site inspection, and analytical results of the detailed sampling event, EDP concludes that the potential for significant gross or widespread contamination to exist at the site is considered to be low and that no further investigation at the site is necessary.

Furthermore, the relevant SEARs applicable for the project are itemised in **Table 6** below and how they have been addressed.

Table 6 – Applicable SEARs for the Project

| Deliverable | Refer to source within SEARs | Consultant | Consultation Responsibilities | How this is addressed |
|---|------------------------------|------------|--|---|
| Contamination Assessment | 16. Contamination | EDP | Provide a Stage 2 Detailed Site Contamination report as per the Future Environmental Assessment Requirements SSD Concept Approval SSD-10114. | Previous investigation reports and data. This desktop and Intrusive investigation. |
| Acid Sulfate Soils Assessment and Management Plan | 18. Soil and Water | EDP | The EIS shall include a: Geotechnical assessment. Acid Sulfate Soils Assessment and Management Plan The EIS must map the following features relevant to soil and water including: Acid sulfate soils (Class 1, 2, 3 or 4 on the Acid Sulfate Soil Planning Map). Rivers, streams, wetlands, estuaries (as described in s4.2 of the Biodiversity Assessment Method). Wetlands as described in s4.2 of the Biodiversity Assessment Method. | Geotechnical assessment provided by Coffey 2019. Previous investigation reports and data. This desktop and Intrusive investigation for deliverable of ASS Assessment and ASS Management Plan. |
| Groundwater Assessment | 18. Soil and Water | EDP | The EIS shall include a: Groundwater Assessment. The EIS must map the following features relevant to soil and water including: Rivers, streams, wetlands, estuaries (as described in s4.2 of the Biodiversity Assessment Method). | Previous investigation reports and data. This desktop and Intrusive investigation for deliverable of Groundwater Assessment Report and including the requirements as specified in the SEARs, in |

| Deliverable | Refer to source within SEARs | Consultant | Consultation Responsibilities | How this is addressed |
|-------------|------------------------------|------------|---|--|
| | | | Wetlands as described in s4.2 of the Biodiversity Assessment Method. Groundwater. Groundwater dependent ecosystems. Proposed intake and discharge locations. The EIS must describe background conditions for any water resource likely to be affected by the development including: The nature and degree of impact on receiving waters for both surface and groundwater, demonstrating how the development protects the Water Quality Objectives where they are currently being achieved, and contributes towards achievement of the Water Quality Objectives over time where they are currently not being achieved. This should include an assessment of the mitigating effects of proposed stormwater and wastewater management during and after construction; and Identification of proposed monitoring of water quality. | column 4 of this table and any recommendations for further assessment or monitoring. |

Based on this investigation and in conjunction with previous investigations undertaken at the site, localised ACM contamination has been identified. This known contamination must be managed under a site-specific Asbestos Management Plan incorporated into a Construction Environmental Management Plan, to ensure the safety of potential receptors throughout the construction works. The level of contamination (extent and degree) is not considered significant enough to require the preparation of a RAP.

In-situ fill material at the site is currently not considered compliant with the NSW EPA *Excavated Natural Material Order 2014* and is currently not suitable for reuse due to exceedances of BaP and foreign materials. If during bulk earthworks sections of soil are determined to be visibly free of foreign materials, these soils should be stockpiled in a separate location on-site to allow for additional ENM assessment. This approach must ensure the unacceptable hotspots (those exceeding absolute maximum) are excluded from further assessment. Alternatively, in-situ soils at the site (excluding TP19) are classified as General Solid Waste (non-putrescible). Soils excavated from the asbestos hotspot identified at TP19 must be disposed offsite as Special Waste (asbestos waste) with chemical classification of General Solid Waste (non-putrescible).

Minor potential Acid Sulfate Soils (ASS) were identified within natural materials underlying the fill layer at the site. These will be managed in accordance with the Acid Sulfate Soils Management Plan to be prepared for the site.

EDP concludes that based on the investigation results, the site is suitable for the proposed site work, subject to the development and implementation of an Asbestos Management Plan (AMP), prepared by a suitably qualified and experienced environmental professional. This AMP must be implemented throughout all earthworks undertaken at the site.

Appendix A: Figures



26-30 Mann Street, Gosford NSW

Updated Detailed Site Investigation

Site Location



LEGEND:

| | |
|--|---------------------------|
| | Site location |
| | Approximate site boundary |
| | |

Image from: Nearmap, 2020

DETAILS:

| | |
|-------------------------|--------------------------------|
| Client Name: | SH Gosford Residential Pty Ltd |
| EDP Reference: | S-02118.001 V3 / S0001 |
| Figure Number: | I |
| Figure Name: | Site Location |
| Assessment Date: | Friday, 2 October 2020 |



26-30 Mann Street, Gosford NSW

Updated Detailed Site Investigation

Sampling Plan



LEGEND:

| | |
|--|-------------------------------|
| | Approximate site boundary |
| | Approximate test pit location |
| | Approximate borehole location |

Image from: Nearmap, 2020

DETAILS:

| | |
|-------------------------|--------------------------------|
| Client Name: | SH Gosford Residential Pty Ltd |
| EDP Reference: | S-02118.001 V3 / S0001 |
| Figure Number: | 2 |
| Figure Name: | Sampling Plan |
| Assessment Date: | Friday, 2 October 2020 |





26-30 Mann Street, Gosford NSW

Updated Detailed Site Investigation

Criteria Exceedances



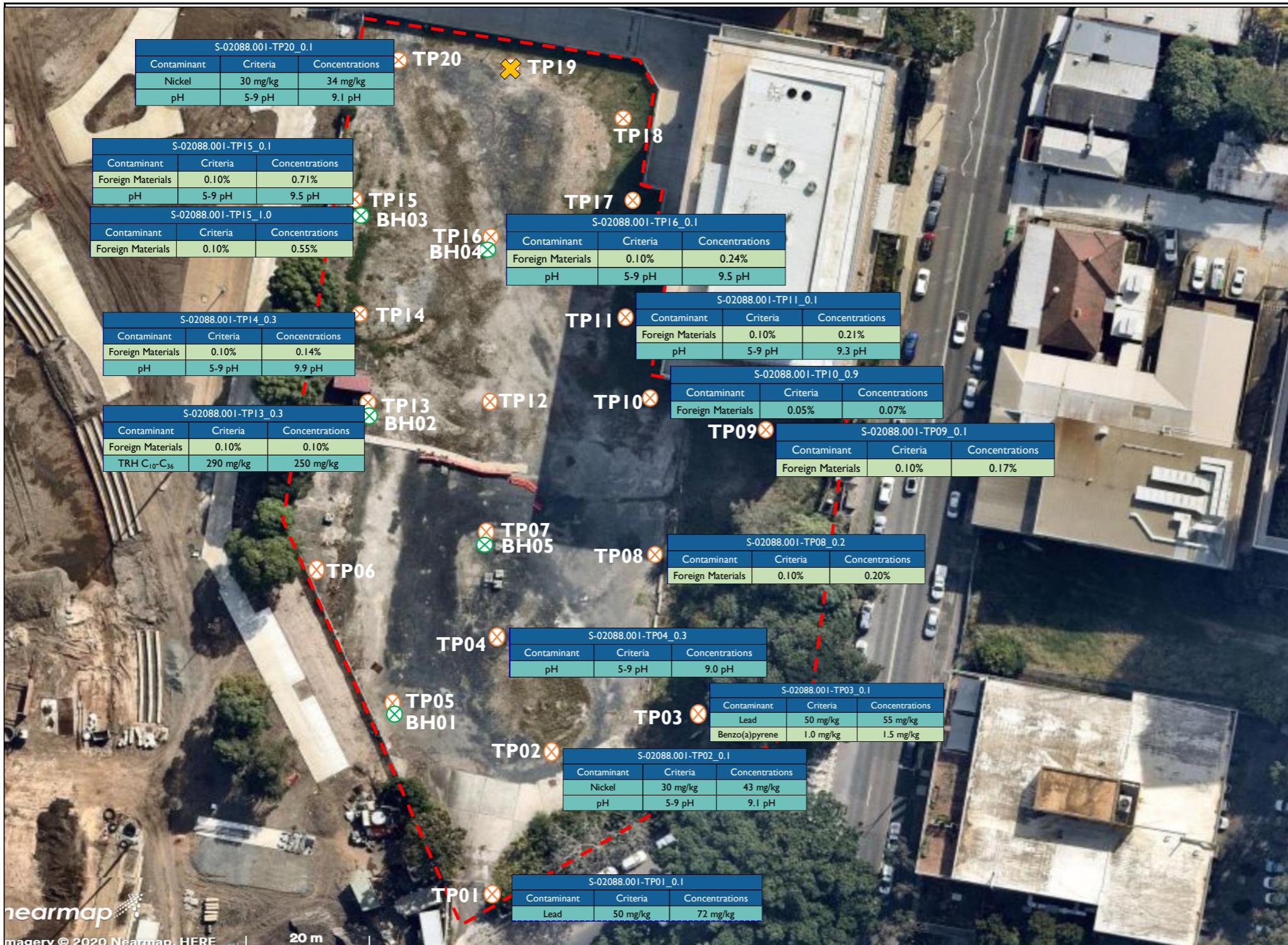
LEGEND:

| | |
|--|---|
| | ACM Detected |
| | NSW ENM Order 2014 (Absolute Maximum) |
| | NSW 2014 ENM Order 2014 (Maximum Average) |

Image from: Nearmap, 2020

DETAILS:

| | |
|-------------------------|--------------------------------|
| Client Name: | SH Gosford Residential Pty Ltd |
| EDP Reference: | S-02118.001 V3 / S0001 |
| Figure Number: | 2 |
| Figure Name: | Sampling Plan |
| Assessment Date: | Friday, 2 October 2020 |



Appendix B: Photographs

PHOTOGRAPHIC LOG

| | |
|----------------|--------------------------------|
| Site Details: | 26-30 Mann Street, Gosford NSW |
| EDP Reference: | S-02188.001 |



Photo 1: Overview of facing north



Photo 2: Overview of facing south west.



Photo 3: Overview of earthen mound within eastern boundary of site.



Photo 4: Overlying fill material observed at TP2.



Photo 5: Overlying fill material observed at TP3.



Photo 6: Overlying fill material observed at TP8.

PHOTOGRAPHIC LOG

| | |
|----------------|--------------------------------|
| Site Details: | 26-30 Mann Street, Gosford NSW |
| EDP Reference: | S-02188.001 |



Photo 7: TP17.



Photo 8: Material excavated from TP19 within the northern boundary of the site.



Photo 9: Mixed building rubble and scrap metal encountered at TP19.



Photo 10: Asbestos-containing fibre cement sheeting sampled at TP19 (AS001).



Photo 9: Clay material encountered at BH01



Photo 10: Clay material encountered at BH03.

End of Photographic Log

Appendix C: Borehole Logs

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|---|--|----------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | TP01 | TP01_0.1 | Y |  | FILL: Brown silty SAND, loose, dry with rootlets and blue metal gravels (1-10 mm). No asbestos materials, odour or staining evident. | QA01 and QA02 @BH01_0.1 | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | FILL: Brown/ dark brown clayey SAND, loose, soft, slightly moist with sandstone. No asbestos materials, odour or staining evident. | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP01_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | SAND:Dark brown/ black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.3 | | | | | Termination Depth at 1.3 m at target depth in sand. | | |
| 1.4 | | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|-----------------|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP02_0.1 | Y | | FILL: Brown silty SAND, loose, slightly moist with rootlets and blue metal gravels (1-10 mm). No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | FILL: Red-orange CLAY, firm, slightly moist with crushed concrete. No asbestos materials, odour or staining evident. | | |
| 0.3 | | | | | | | |
| 0.4 | | TP02_0.5 | N | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | TP02_0.9 | Y | | SAND:Dark brown/ black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.0 | | | | | Termination Depth at 1.1 m at target depth in sand. | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | | | |
| 1.4 | | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|---|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP03_0.1 | Y |  | FILL: Brown silty SAND, loose, dry, with rootlets and blue metal gravels (1-10 mm), tiles, wire and crushed concrete. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | |  | FILL: Brown clayey SAND, firm, loose slightly moist. No asbestos materials, odour or staining evident. | | |
| 0.9 | | TP03_1.0 | Y | | | | |
| 1.0 | | | | SAND:Dark brown/ black fine grained silty SAND, dense, moist. No odour or staining evident. | | | |
| 1.1 | | TP03_1.2 | Y |  | | | |
| 1.2 | | | | | Termination Depth at 1.2 m at target depth in sand. | | |
| 1.3 | | | | | | | |
| 1.4 | | | | | | | |

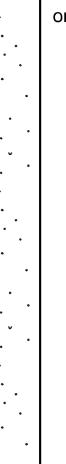
| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|---------|--------------|-----------------|---|--------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | | | FILL: Brown silty SAND, loose, dry, with rootlets and blue metal gravels (1-10 mm), tiles, wire and crushed concrete. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | FILL: Brown/orange clayey SAND, firm, loose slightly moist with blue metal gravels (1-10 mm). No asbestos materials, odour or staining evident. | | |
| 0.3 | | | | | TP04_0.3 | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | | | | | | |
| 1.1 | | | | | SAND: Grey fine grained silty SAND with orange mottling, dense, moist. No odour or staining evident. | | |
| 1.2 | | | | | TP04_1.2 | QA03 and QA04 @ BH04_1.2 | |
| 1.3 | | | | | Termination Depth at 1.2 m at target depth in sand. | | |
| 1.4 | | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|--|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP05_0.1 | Y |  | FILL: Brown/orange/red sandy CLAY, stiff, dry with gravels (1-10 mm). No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP05_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.4 | | TP05_1.4 | Y | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|-----------------|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Ute mounted drill rig | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 5.0 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | | | FILL: Brown/orange/red sandy CLAY, stiff, dry with gravels (1-10 mm). No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1 | | | | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.4 | | | | | | | |
| 1.5 | | | | | | | |
| 1.6 | | | | | | | |
| 1.7 | | | | | CLAY: Dark Grey CLAY, stiff, dry, low to medium plasticity. Grading to light grey with depth. | | |
| 1.8 | | | | | | | |
| 1.9 | | | | | | | |
| 2 | | BH01_2.0 | Y | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|----------------------|-------------------------|
| 2.1 | | | | | | |
| 2.2 | | | | | | |
| 2.3 | | | | | | |
| 2.4 | | | | | | |
| 2.5 | | | | | | |
| 2.6 | | | | | | |
| 2.7 | | | | | | |
| 2.8 | | | | | | |
| 2.9 | | | | | | |
| 3.0 | | BH01_3.0 | Y | | | |
| 3.1 | | | | | | |
| 3.2 | | | | | | |
| 3.3 | | | | | | |
| 3.4 | | | | | | |
| 3.5 | | | | | | |
| 3.6 | | | | | | |
| 3.7 | | | | | | |
| 3.8 | | | | | | |
| 3.9 | | | | | | |
| 4.0 | | BH01_4.0 | Y | | | |
| 4.1 | | | | | | |
| 4.2 | | | | | | |
| 4.3 | | | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|---|-------------------------|
| 4.4 | | | | | | |
| 4.5 | | | | | | |
| 4.6 | | | | | | |
| 4.7 | | | | | CLAY: Red CLAY with white mottling, stiff, dry, low to medium plasticity. | |
| 4.8 | | | | | | |
| 4.9 | | | | | | |
| 5 | | BH01_5.0 | Y | | Termination Depth at 5 m at target depth in clay | |
| 5.1 | | | | | | |
| 5.2 | | | | | | |
| 5.3 | | | | | | |
| 5.4 | | | | | | |
| 5.5 | | | | | | |
| 5.6 | | | | | | |
| 5.7 | | | | | | |
| 5.8 | | | | | | |
| 5.9 | | | | | | |
| 6 | | | | | | |
| 6.1 | | | | | | |
| 6.2 | | | | | | |
| 6.3 | | | | | | |
| 6.4 | | | | | | |
| 6.5 | | | | | | |
| 6.6 | | | | | | |
| 6.7 | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|---|--|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.1 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP06_0.1 | Y |  | FILL: Brown/ orange clayey SAND, loose, dry with blue metal gravels (1-10 mm). No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | TP06_1.0 | Y |  | | | |
| 1.0 | | | | | | | |
| 1.1 | | | | | Termination Depth at 1.1 m at target depth in sand. | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | | | |
| 1.4 | | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|---|--|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.3 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP07_0.1 | Y |  | FILL: Brown sandy CLAY, loose, dry with blue metal gravels (1-10 mm), crushed brick, concrete and scrap metal. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | TP07_1.0 | Y | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | | | | | | |
| 1.1 | | | | | | | |
| 1.2 | | TP07_1.3 | Y |  | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.3 | | | | | Termination Depth at 1.3 m at target depth in sand. | | |
| 1.4 | | | | | | | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | LOGGED BY LRB | | |
|--|------|----------|--|-----------------------|--|-------------------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | | DRILLING METHOD Ute mounted drill rig | CHECKED BY RJJ | | |
| CLIENT St Hilliers | | | TOTAL DEPTH 5.0 | | | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | |
| Depth (m) | PIID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| 0.1 | | | | | FILL: Brown sandy CLAY, loose, dry with blue metal gravels (1-10 mm), crushed brick, concrete and scrap metal. No asbestos materials, odour or staining evident. | |
| 0.2 | | | | | | |
| 0.3 | | | | | | |
| 0.4 | | | | | | |
| 0.5 | | | | | | |
| 0.6 | | | | | | |
| 0.7 | | | | | | |
| 0.8 | | | | | | |
| 0.9 | | | | | | |
| 1 | | | | | | |
| 1.1 | | | | | | |
| 1.2 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | |
| 1.3 | | | | | | |
| 1.4 | | | | | CLAY: Dark Grey CLAY, stiff, dry, low to medium plasticity. Grading to light grey with depth. | |
| 1.5 | | | | | | |
| 1.6 | | | | | | |
| 1.7 | | | | | | |
| 1.8 | | | | | | |
| 1.9 | | | | | | |
| 2 | | BH05_2.0 | Y | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|----------------------|-------------------------|
| 2.1 | | | | | | |
| 2.2 | | | | | | |
| 2.3 | | | | | | |
| 2.4 | | | | | | |
| 2.5 | | | | | | |
| 2.6 | | | | | | |
| 2.7 | | | | | | |
| 2.8 | | | | | | |
| 2.9 | | | | | | |
| 3.0 | | BH05_3.0 | Y | | | |
| 3.1 | | | | | | |
| 3.2 | | | | | | |
| 3.3 | | | | | | |
| 3.4 | | | | | | |
| 3.5 | | | | | | |
| 3.6 | | | | | | |
| 3.7 | | | | | | |
| 3.8 | | | | | | |
| 3.9 | | | | | | |
| 4.0 | | BH05_4.0 | Y | | | |
| 4.1 | | | | | | |
| 4.2 | | | | | | |
| 4.3 | | | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|---|-------------------------|
| 4.4 | | | | | | |
| 4.5 | | | | | | |
| 4.6 | | | | | | |
| 4.7 | | | | | | |
| 4.8 | | | | | | |
| 4.9 | | | | | | |
| 5 | | BH05_5.0 | Y | | CLAY: Grey/red/yellow sandy CLAY, loose, firm, dry, low to medium plasticity. Termination Depth at 5 m at target depth in sandy clay | |
| 5.1 | | | | | | |
| 5.2 | | | | | | |
| 5.3 | | | | | | |
| 5.4 | | | | | | |
| 5.5 | | | | | | |
| 5.6 | | | | | | |
| 5.7 | | | | | | |
| 5.8 | | | | | | |
| 5.9 | | | | | | |
| 6 | | | | | | |
| 6.1 | | | | | | |
| 6.2 | | | | | | |
| 6.3 | | | | | | |
| 6.4 | | | | | | |
| 6.5 | | | | | | |
| 6.6 | | | | | | |
| 6.7 | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|---------|--------------|--|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.3 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | |  | FILL: Brown sandy CLAY with orange and grey mottling, loose, dry with blue metal gravels (1-10 mm), crushed concrete. No asbestos materials, odour or staining evident. | | |
| TP08_0.1 | | Y | | | | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| TP08_1.0 | | Y | | | | | |
| 1.0 | | | | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| TP08_1.2 | | Y | | | | | |
| 1.3 | | | | | Termination Depth at 1.3 m at target depth in sand. | | |
| 1.4 | | | | | | | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | LOGGED BY LRB | | |
|--|-----|----------------------------------|-----------------------------------|--|---|-------------------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | DRILLING METHOD Excavator | | CHECKED BY RJJ | | |
| CLIENT St Hilliers | | TOTAL DEPTH 1.3 | | | | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| 0.1 | | TP09_0.1 | Y |  | FILL: Dark brown sandy CLAY, loose, soft, slightly moist with blue metal gravels (1-10 mm), crushed concrete, glass, plastic, tile fragments and sandstone. No asbestos materials, odour or staining evident. | On fill mound |
| 0.2 | | | | | | |
| 0.3 | | | | | | |
| 0.4 | | | | | | |
| 0.5 | | | | | | |
| 0.6 | | | | | | |
| 0.7 | | | | | | |
| 0.8 | | | | | | |
| 0.9 | | | | | | |
| 1.0 | | TP09_1.0 | N | | | |
| 1.1 | | | | | | |
| 1.2 | | | | | | |
| 1.3 | | | | | | |
| 1.4 | | | | | | |
| 1.5 | | TP09_1.5 | Y | | Termination Depth at 1.5 m at target depth in fill. | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|-----------------|--|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | | | FILL: Brown/ grey clayey SAND, loose, soft, slightly moist with blue metal gravels (1-10 mm) and timber sleeper. No asbestos materials, odour or staining evident. | | |
| 0.1 | | TP10_0.1 | Y | | | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | TP10_0.9 | Y | | SAND: Dark brown/black fine grained silty SAND, dense, moist. Mild organic odour. | | |
| 1.0 | | TP10_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | | | |
| 1.4 | | | | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|--|---|--------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP11_0.1 | Y |  | FILL: Brown/ grey sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm) and asphalt. No asbestos materials, odour or staining evident. | QA05 and QA06 @ TP11_1.0 | |
| 0.2 | | | |  | FILL: Grey clayey SAND, loose, soft, slightly moist with sandstone. No asbestos materials, odour or staining evident. | | |
| 0.3 | | | |  | | | |
| 0.4 | | | |  | | | |
| 0.5 | | | |  | | | |
| 0.6 | | | |  | | | |
| 0.7 | | | |  | | | |
| 0.8 | | | |  | | | |
| 0.9 | | | |  | | | |
| 1.0 | | TP11_1.0 | Y |  | | | |
| 1.1 | | | |  | SAND: Grey fine grained silty SAND, dense, moist with mild organic odour. | | |
| 1.2 | | TP11_1.2 | Y |  | | | |
| 1.3 | | | |  | | | |
| 1.4 | | | |  | | | |
| 1.5 | | | |  | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|--|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | |  | FILL: Brown/grey clayey SAND, loose, soft, slightly moist with blue metal gravels (1-10 mm) and timber stake. No asbestos materials, odour or staining evident. | | |
| 0.2 | | TP12_0.2 | Y | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP12_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.3 | | TP12_1.3 | Y | | | | |
| 1.4 | | | | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|---|--------------|--|--|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | |  | FILL: Brown/ grey sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm) crushed concrete, terracotta and brick. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | | | |
| 0.3 | | TP13_0.3 | Y | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP13_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | | | | |
| 1.3 | | TP13_1.3 | Y | | | | |
| 1.4 | | | | | | | |
| 1.5 | | Termination Depth at 1.5 m at target depth in sand. | | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|----------|---------|--------------|-------------|--|-------------------------|
| 2.1 | | | | | | |
| 2.2 | | | | | | |
| 2.3 | | | | | | |
| 2.4 | | | | | | |
| 2.5 | | | | | | |
| 2.6 | | | | | | |
| 2.7 | | | | | | |
| 2.8 | | | | | | |
| 2.9 | | | | | | |
| 3.0 | BH02_3.0 | Y | | | CLAY: Grey CLAY with red/orange mottling, stiff, dense, dry, low to medium plasticity. | |
| 3.1 | | | | | | |
| 3.2 | | | | | | |
| 3.3 | | | | | | |
| 3.4 | | | | | | |
| 3.5 | | | | | | |
| 3.6 | | | | | | |
| 3.7 | | | | | | |
| 3.8 | | | | | | |
| 3.9 | | | | | | |
| 4.0 | BH02_4.0 | Y | | | | |
| 4.1 | | | | | | |
| 4.2 | | | | | | |
| 4.3 | | | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|--|-------------------------|
| 4.4 | | | | | | |
| 4.5 | | | | | | |
| 4.6 | | | | | | |
| 4.7 | | | | | | |
| 4.8 | | | | | | |
| 4.9 | | | | | | |
| 5 | | BH02_5.0 | Y | ▨ | Termination Depth at 5 m at target depth in sandy clay | |
| 5.1 | | | | | | |
| 5.2 | | | | | | |
| 5.3 | | | | | | |
| 5.4 | | | | | | |
| 5.5 | | | | | | |
| 5.6 | | | | | | |
| 5.7 | | | | | | |
| 5.8 | | | | | | |
| 5.9 | | | | | | |
| 6 | | | | | | |
| 6.1 | | | | | | |
| 6.2 | | | | | | |
| 6.3 | | | | | | |
| 6.4 | | | | | | |
| 6.5 | | | | | | |
| 6.6 | | | | | | |
| 6.7 | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|-----------------|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | | | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm) crushed concrete, terracotta and brick. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | FILL: Brown clayey SAND, dense, slightly moist with blue metal gravels (1-10 mm), terracotta piping and brick. No asbestos materials, odour or staining evident. | | |
| 0.3 | | TP14_0.3 | Y | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP14_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.3 | | TP14_1.3 | Y | | | | |
| 1.4 | | | | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|--|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP15_0.1 | Y |  | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm) crushed concrete, terracotta and brick. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | FILL: Brown sandy CLAY, dense, slightly moist with blue metal gravels (1-10 mm), terracotta piping, brick and glass. No asbestos materials, odour or staining evident. | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP15_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | SAND: Dark brown/black fine grained silty SAND, dense, moist. No odour or staining evident. | | |
| 1.4 | | TP15_1.4 | Y | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | LOGGED BY LRB |
|---|-----|----------|---------------------------------------|----------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | | DRILLING METHOD Ute mounted drill rig | CHECKED BY RJJ |
| CLIENT St Hilliers | | | TOTAL DEPTH 5.0 | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | |
| COMMENTS | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log |
| 0.1 | | | | |
| 0.2 | | | | |
| 0.3 | | | | |
| 0.4 | | | | |
| 0.5 | | | | |
| 0.6 | | | | |
| 0.7 | | | | |
| 0.8 | | | | |
| 0.9 | | | | |
| 1 | | | | |
| 1.1 | | | | |
| 1.2 | | | | |
| 1.3 | | | | |
| 1.4 | | | | |
| 1.5 | | | | |
| 1.6 | | | | |
| 1.7 | | | | |
| 1.8 | | | | |
| 1.9 | | | | |
| 2 | | BH03_2.0 | Y | |
| QA09 and QA10 @ BH03_2.0 | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|----------------------|-------------------------|
| 2.1 | | | | | | |
| 2.2 | | | | | | |
| 2.3 | | | | | | |
| 2.4 | | | | | | |
| 2.5 | | | | | | |
| 2.6 | | | | | | |
| 2.7 | | | | | | |
| 2.8 | | | | | | |
| 2.9 | | | | | | |
| 3.0 | | BH03_3.0 | Y | | | |
| 3.1 | | | | | | |
| 3.2 | | | | | | |
| 3.3 | | | | | | |
| 3.4 | | | | | | |
| 3.5 | | | | | | |
| 3.6 | | | | | | |
| 3.7 | | | | | | |
| 3.8 | | | | | | |
| 3.9 | | | | | | |
| 4.0 | | BH03_4.0 | Y | | | |
| 4.1 | | | | | | |
| 4.2 | | | | | | |
| 4.3 | | | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|---|-------------------------|
| 4.4 | | | | | | |
| 4.5 | | | | | CLAY: Grey CLAY with red mottling, very stiff, dry, low to medium plasticity. | |
| 4.6 | | | | | | |
| 4.7 | | | | | | |
| 4.8 | | | | | | |
| 4.9 | | | | | | |
| 5 | | BH03_5.0 | Y | | Termination Depth at 5 m at target depth in clay | |
| 5.1 | | | | | | |
| 5.2 | | | | | | |
| 5.3 | | | | | | |
| 5.4 | | | | | | |
| 5.5 | | | | | | |
| 5.6 | | | | | | |
| 5.7 | | | | | | |
| 5.8 | | | | | | |
| 5.9 | | | | | | |
| 6 | | | | | | |
| 6.1 | | | | | | |
| 6.2 | | | | | | |
| 6.3 | | | | | | |
| 6.4 | | | | | | |
| 6.5 | | | | | | |
| 6.6 | | | | | | |
| 6.7 | | | | | | |

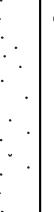
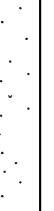
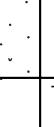
| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|--|--|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP16_0.1 | Y |  | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with bricks, glass, terracotta and asphalt. No asbestos materials, odour or staining evident. | | |
| 0.2 | | | | | FILL: Brown/orange sandy CLAY, firm, slightly moist with with bricks, glass, terracotta and asphalt. No asbestos materials, odour or staining evident. | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | TP16_1.0 | Y | | SAND: Dark grey fine grained silty SAND, dense, moist. mild organic odour. | | |
| 1.0 | | | | | | | |
| 1.1 | | | | | SAND: Dark brown/ black fine grained silty SAND, dense, moist. mild organic odour. | | |
| 1.2 | | TP16_1.2 | Y | | | | |
| 1.3 | | | | | | | |
| 1.4 | | | | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | LOGGED BY LRB |
|--|-----|----------|--|-----------------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | | DRILLING METHOD Ute mounted drill rig | CHECKED BY RJJ |
| CLIENT St Hilliers | | | TOTAL DEPTH 5.0 | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | |
| COMMENTS | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log |
| 0.1 | | | | |
| 0.2 | | | | |
| 0.3 | | | | |
| 0.4 | | | | |
| 0.5 | | | | |
| 0.6 | | | | |
| 0.7 | | | | |
| 0.8 | | | | |
| 0.9 | | | | |
| 1 | | | | |
| 1.1 | | | | |
| 1.2 | | | | |
| 1.3 | | | | |
| 1.4 | | | | |
| 1.5 | | | | |
| 1.6 | | | | |
| 1.7 | | | | |
| 1.8 | | | | |
| 1.9 | | | | |
| 2 | | BH04_2.0 | Y | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|--|-------------------------|
| 2.0 | | | | | CLAY: Grey CLAY, stiff, dry, low to medium plasticity. | |
| 2.1 | | | | | | |
| 2.2 | | | | | | |
| 2.3 | | | | | | |
| 2.4 | | | | | | |
| 2.5 | | | | | | |
| 2.6 | | | | | | |
| 2.7 | | | | | | |
| 2.8 | | | | | | |
| 2.9 | | | | | | |
| 3.0 | | BH04_3.0 | Y | | | |
| 3.1 | | | | | | |
| 3.2 | | | | | | |
| 3.3 | | | | | | |
| 3.4 | | | | | | |
| 3.5 | | | | | | |
| 3.6 | | | | | | |
| 3.7 | | | | | | |
| 3.8 | | | | | | |
| 3.9 | | | | | | |
| 4.0 | | BH04_4.0 | Y | | | |
| 4.1 | | | | | | |
| 4.2 | | | | | | |
| 4.3 | | | | | | |

| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
|-----------|-----|----------|--------------|-------------|---|-------------------------|
| 4.4 | | | | | | |
| 4.5 | | | | | | |
| 4.6 | | | | | | |
| 4.7 | | | | | | |
| 4.8 | | | | | | |
| 4.9 | | | | | | |
| 5 | | BH04_5.0 | Y | ▨ | Termination Depth at 5 m at target depth in clay. | |
| 5.1 | | | | | | |
| 5.2 | | | | | | |
| 5.3 | | | | | | |
| 5.4 | | | | | | |
| 5.5 | | | | | | |
| 5.6 | | | | | | |
| 5.7 | | | | | | |
| 5.8 | | | | | | |
| 5.9 | | | | | | |
| 6 | | | | | | |
| 6.1 | | | | | | |
| 6.2 | | | | | | |
| 6.3 | | | | | | |
| 6.4 | | | | | | |
| 6.5 | | | | | | |
| 6.6 | | | | | | |
| 6.7 | | | | | | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|--|--|--------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | TP17_0.1 | Y |  | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with bricks, glass, plastic. No asbestos materials, odour or staining evident. | QA07 and QA08 @ TP17_1.1 | |
| 0.2 | | | | | FILL: Brown sandy CLAY with orange and grey mottling, firm, slightly moist with blue metal gravels and timber stake. No asbestos materials, odour or staining evident. | | |
| 0.3 | | TP17_0.5 | Y | | | | |
| 0.4 | | | | | | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP17_1.1 | Y | | SAND: Dark brown/ black fine grained silty SAND, dense, moist. Mild organic odour. | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | | | |
| 1.4 | | | | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | | LOGGED BY LRB | |
|--|------|----------------------------------|-----------------------------------|---|---|-------------------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | DRILLING METHOD Excavator | | CHECKED BY RJJ | | |
| CLIENT St Hilliers | | TOTAL DEPTH 1.5 | | | | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | |
| Depth (m) | PIID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| 0.1 | | TP18_0.1 | Y |  | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm) crushed concrete, terracotta and brick. No asbestos materials, odour or staining evident. | |
| 0.2 | | | | | | |
| 0.3 | | | | | | |
| 0.4 | | TP18_0.5 | Y |  | | |
| 0.5 | | | | | | |
| 0.6 | | | | | | |
| 0.7 | | | | | | |
| 0.8 | | | | | | |
| 0.9 | | | |  | SAND: Dark brown/black fine grained silty SAND, dense, moist. Mild organic odour. | |
| 1.0 | | TP18_1.0 | Y |  | | |
| 1.1 | | | | | | |
| 1.2 | | | | | | |
| 1.3 | | | | | | |
| 1.4 | | | | | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | LOGGED BY LRB | | |
|--|-----|----------|-----------------------------------|-----------------------|---|-------------------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | | DRILLING METHOD Excavator | CHECKED BY RJJ | | |
| CLIENT St Hilliers | | | TOTAL DEPTH 1.5 | | | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| 0.1 | | TP19_0.1 | Y | | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm) crushed concrete, terracotta and brick. No asbestos materials, odour or staining evident. | |
| 0.2 | | TP19_0.3 | Y | | FILL: Dark brown/grey asphalt gravel layer (10-30 mm) | |
| 0.3 | | TP19_0.5 | Y | | FILL: Dark brown gravelly sandy CLAY, loose, soft, moist with blue metal gravels (1-10 mm 30%) scrap metal, steel rod, bricks, asphalt and fibre cement sheeting. No odour or staining evident. | ASB001 @ TP19_0.5 |
| 0.4 | | | | | | |
| 0.5 | | | | | | |
| 0.6 | | | | | | |
| 0.7 | | | | | | |
| 0.8 | | | | | | |
| 0.9 | | | | | | |
| 1.0 | | | | | | |
| 1.1 | | | | | | |
| 1.2 | | | | | | |
| 1.3 | | | | | | |
| 1.4 | | | | | | |
| 1.5 | | TP19_1.5 | Y | | Termination Depth at 1.5 m at target depth in fill. | |

| PROJECT NUMBER | S-02188.001 | | | DATE | 1/10/2020 - 2/10/2020 | LOGGED BY | LRB |
|-----------------|------------------------------|----------|--------------|-----------------|---|-------------------------|-----|
| PROJECT NAME | Updated DSI - 32 Mann Street | | | DRILLING METHOD | Excavator | CHECKED BY | RJJ |
| CLIENT | St Hilliers | | | TOTAL DEPTH | 1.5 | | |
| SITE ADDRESS | 32 Mann Street, Gosford NSW | | | | | | |
| COMMENTS | | | | | | | |
| Depth (m) | PID | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations | |
| 0.1 | | | | | FILL: Brown/ grey gravelly sandy CLAY, loose, soft, dry with blue metal gravels (1-10 mm). No asbestos materials, odour or staining evident. | | |
| 0.1 | | TP20_0.1 | Y | | | | |
| 0.2 | | | | | | | |
| 0.3 | | | | | | | |
| 0.4 | | | | | FILL: Brown sandy CLAY with orange mottling, firm, slightly moist with asphalt, brick and terracotta. No asbestos materials, odour or staining evident. | | |
| 0.5 | | | | | | | |
| 0.6 | | | | | | | |
| 0.7 | | | | | | | |
| 0.8 | | | | | | | |
| 0.9 | | | | | | | |
| 1.0 | | TP20_1.0 | Y | | | | |
| 1.1 | | | | | | | |
| 1.2 | | | | | | | |
| 1.3 | | | | | | | |
| 1.4 | | TP20_1.5 | Y | | SAND: Dark brown/ black fine grained silty SAND, dense, moist. Mild organic odour. | | |
| 1.5 | | | | | Termination Depth at 1.5 m at target depth in sand. | | |

| PROJECT NUMBER S-02188.001 | | | DATE 1/10/2020 - 2/10/2020 | LOGGED BY LRB |
|--|------|----------|--|-----------------------|
| PROJECT NAME Updated DSI - 32 Mann Street | | | DRILLING METHOD Ute mounted drill rig | CHECKED BY RJJ |
| CLIENT St Hilliers | | | TOTAL DEPTH 5.0 | |
| SITE ADDRESS 32 Mann Street, Gosford NSW | | | | |
| COMMENTS | | | | |
| Depth (m) | PIID | Samples | Is Analysed? | Graphic Log |
| 0.1 | | | | |
| 0.2 | | | | |
| 0.3 | | | | |
| 0.4 | | | | |
| 0.5 | | | | |
| 0.6 | | | | |
| 0.7 | | | | |
| 0.8 | | | | |
| 0.9 | | | | |
| 1 | | | | |
| 1.1 | | | | |
| 1.2 | | | | |
| 1.3 | | | | |
| 1.4 | | | | |
| 1.5 | | | | |
| 1.6 | | | | |
| 1.7 | | | | |
| 1.8 | | | | |
| 1.9 | | | | |
| 2 | | BH02_2.0 | Y | |
| QA09 and QAC10 @ BH02_2.0 | | | | |

Appendix D: Summary Table of Results

TABLE DI: SUMMARY OF SOIL ANALYTICAL RESULTS



TABLE D I: SUMMARY OF SOIL ANALYTICAL RESULTS



Legend

ND = Non Detect

Coloured Concentration = Criteria Exceeded

TABLE D I: SUMMARY OF SOIL ANALYTICAL RESULTS



TABLE D I: SUMMARY OF SOIL ANALYTICAL RESULTS



Legend

ND = Non Detect

Coloured Concentration = Criteria Exceeded

TABLE D2: SUMMARY OF ANALYTICAL RESULTS FOR ENM CLASSIFICATION



| Analyte | | | Heavy Metals | | | | | | | PAHs | | BTEX | | | | TRH | Foreign Material | Inorganics | | Asbestos |
|---|--------------|-----------|---------------|---------|---------------|------|---------|--------|------|---------------|-----------|---------------|---------|--------------|--------|---------------|------------------|------------|-------------------------|-------------------------|
| | | | Total (mg/kg) | | | | | | | Total (mg/kg) | | Total (mg/kg) | | | | Total (mg/kg) | % | pH | dS/m | Asbestos in Soil (g/kg) |
| | | | Arsenic | Cadmium | Chromium (IV) | Lead | Mercury | Nickel | Zinc | Benz(a)Pyrene | Total PAH | Benzene | Toluene | Ethylbenzene | Xylene | C10-C36 | Foreign Material | pH | Electrical Conductivity | |
| Practical Quantitative Limit (PQL) | | | 4 | 0.4 | 1 | 1 | 0.1 | 1 | 1 | 0.05 | 2 | 0.2 | 0.5 | 1 | 3 | 250 | - | - | - | 0.1 |
| NSW ENM Order 2014 (Absolute Maximum) | | | 40 | 1 | 150 | 100 | 1 | 60 | 300 | 1 | 40 | 0.5 | 65 | 25 | 15 | 500 | 0.1 | 4.5 - 10 | 3 | ND |
| NSW 2014 ENM Order 2014 (Maximum Average) | | | 20 | 0.5 | 75 | 50 | 0.5 | 30 | 150 | 0.5 | 20 | | | | | 250 | 0.05 | 5 - 9 | 1.5 | ND |
| Sample ID | Date Sampled | Depth (m) | | | | | | | | | | | | | | | | | | |
| S-02188.001-TP01_0.1 | 1/10/2020 | 0.1 | 13 | ND | 9 | 72 | ND | 12 | 99 | 0.2 | 1.9 | ND | ND | ND | ND | ND | 0.05 | 7.9 | 0.00057 | ND |
| S-02188.001-TP01_1.0 | 1/10/2020 | 1 | ND | ND | 7 | 39 | ND | 2 | 54 | 0.2 | 2.7 | ND | ND | ND | ND | ND | 0.05 | 8.3 | 0.0011 | ND |
| S-02188.001-TP02_0.1 | 1/10/2020 | 0.1 | ND | ND | 30 | 9 | ND | 43 | 40 | 0.06 | 0.2 | ND | ND | ND | ND | ND | 0.05 | 9.1 | 0.0013 | ND |
| S-02188.001-TP02_0.9 | 1/10/2020 | 0.9 | 14 | ND | 7 | 13 | ND | 10 | 26 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 8.3 | 0.0014 | ND |
| S-02188.001-TP03_0.1 | 1/10/2020 | 0.1 | 5 | ND | 13 | 55 | 0.1 | 10 | 73 | 1.5 | 16 | ND | ND | ND | ND | ND | 0.05 | 8.4 | 0.0012 | ND |
| S-02188.001-TP03_1.0 | 1/10/2020 | 1 | ND | ND | 6 | 41 | 0.2 | 1 | 11 | 0.09 | 0.66 | ND | ND | ND | ND | ND | 0.05 | 6.6 | 0.00049 | ND |
| S-02188.001-TP04_0.3 | 1/10/2020 | 0.3 | 5 | ND | 5 | 17 | ND | 5 | 41 | ND | 0.3 | ND | ND | ND | ND | ND | 0.05 | 9 | 0.00097 | ND |
| S-02188.001-TP05_0.1 | 1/10/2020 | 0.1 | 5 | ND | 10 | 11 | ND | 5 | 28 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 5.7 | 0.0004 | ND |
| S-02188.001-TP05_1.0 | 1/10/2020 | 1 | ND | ND | 11 | 29 | ND | 4 | 33 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 6.1 | 0.00037 | ND |
| S-02188.001-TP06_0.1 | 1/10/2020 | 0.1 | ND | ND | 7 | 8 | ND | 1 | 2 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 7.3 | 0.00018 | ND |
| S-02188.001-TP07_0.1 | 1/10/2020 | 0.1 | ND | ND | 21 | 15 | ND | 8 | 20 | ND | 0.1 | ND | ND | ND | ND | ND | 0.05 | 7.8 | 0.0002 | ND |
| S-02188.001-TP07_1.0 | 1/10/2020 | 1 | ND | ND | 10 | 6 | ND | 11 | 15 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 7.8 | 0.00015 | ND |
| S-02188.001-TP08_0.2 | 1/10/2020 | 0.2 | ND | ND | 7 | 6 | ND | ND | 3 | ND | ND | ND | ND | ND | ND | ND | 0.2 | 6.8 | 0.000029 | ND |
| S-02188.001-TP08_1.0 | 1/10/2020 | 1 | 4 | ND | 12 | 22 | ND | 5 | 26 | 0.71 | 7.9 | ND | ND | ND | ND | ND | 0.05 | 6.4 | 0.000032 | ND |
| S-02188.001-TP09_0.1 | 1/10/2020 | 0.1 | 4 | ND | 10 | 15 | ND | 8 | 26 | ND | ND | ND | ND | ND | ND | ND | 0.17 | 8.4 | 0.00017 | ND |
| S-02188.001-TP09_1.5 | 1/10/2020 | 1.5 | 5 | ND | 10 | 22 | ND | 5 | 27 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 7.9 | 0.00027 | ND |
| S-02188.001-TP10_0.2 | 1/10/2020 | 0.2 | ND | ND | 5 | 9 | ND | 2 | 12 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 7.9 | 0.000097 | ND |
| S-02188.001-TP10_0.9 | 1/10/2020 | 0.9 | ND | ND | 5 | 5 | ND | ND | 26 | ND | ND | ND | ND | ND | ND | ND | 0.07 | 6.1 | 0.000029 | ND |
| S-02188.001-TP11_0.1 | 1/10/2020 | 0.1 | 4 | ND | 13 | 14 | ND | 17 | 55 | 0.1 | 0.83 | ND | ND | ND | ND | ND | 0.21 | 9.3 | 0.00012 | ND |
| S-02188.001-TP11_1.0 | 1/10/2020 | 1 | ND | ND | 5 | 5 | ND | ND | 7 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 7 | 0.000066 | ND |
| S-02188.001-TP12_0.2 | 1/10/2020 | 0.2 | ND | ND | 5 | 6 | ND | 5 | 6 | ND | ND | ND | ND | ND | ND | ND | 0.05 | 7.5 | 0.000096 | ND |

| Analyte | Heavy Metals | | | | | | | PAHs | | BTEX | | | | TRH | Foreign Material | Inorganics | | Asbestos | |
|--|---------------|-----------|---------------|------|---------|--------|------|----------------|-----------|---------------|---------|--------------|--------|---------------|------------------|------------|-------------------------|-------------------------|-------|
| | Total (mg/kg) | | | | | | | Total (mg/kg) | | Total (mg/kg) | | | | Total (mg/kg) | % | pH | dS/m | Asbestos in Soil (g/kg) | |
| | Arsenic | Cadmium | Chromium (IV) | Lead | Mercury | Nickel | Zinc | Benzo(a)Pyrene | Total PAH | Benzene | Toluene | Ethylbenzene | Xylene | C10-C36 | Foreign Material | pH | Electrical Conductivity | | |
| Practical Quantitative Limit (PQL) | 4 | 0.4 | 1 | 1 | 0.1 | 1 | 1 | 0.05 | 2 | 0.2 | 0.5 | 1 | 3 | 250 | - | - | - | 0.1 | |
| NSW ENM Order 2014 (Absolute Maximum) | 40 | 1 | 150 | 100 | 1 | 60 | 300 | 1 | 40 | 0.5 | 65 | 25 | 15 | 500 | 0.1 | 4.5 - 10 | 3 | ND | |
| NSW 2014 ENM Order 2014 (Maximum Average) | 20 | 0.5 | 75 | 50 | 0.5 | 30 | 150 | 0.5 | 20 | | | | | 250 | 0.05 | 5 - 9 | 1.5 | ND | |
| Sample ID | Date Sampled | Depth (m) | | | | | | | | | | | | | | | | | |
| S-02188.001-TP12_I.0 | 1/10/2020 | 1 | ND | ND | 9 | 9 | ND | 2 | 3 | ND | ND | ND | ND | ND | 0.05 | 7.6 | 0.000099 | ND | |
| S-02188.001-TP13_0.3 | 1/10/2020 | 0.3 | ND | ND | 9 | 23 | ND | 12 | 59 | ND | 0.1 | ND | ND | ND | 290 | 0.1 | 8.8 | 0.00013 | ND |
| S-02188.001-TP13_I.0 | 1/10/2020 | 1 | ND | ND | 5 | 7 | ND | 2 | 4 | ND | ND | ND | ND | ND | 0.05 | 6.2 | 0.000087 | ND | |
| S-02188.001-TP14_0.3 | 1/10/2020 | 0.3 | ND | ND | 12 | 22 | ND | 4 | 68 | ND | ND | ND | ND | ND | 0.14 | 9.9 | 0.00015 | ND | |
| S-02188.001-TP14_I.0 | 1/10/2020 | 1 | ND | ND | 4 | 6 | ND | 2 | 8 | ND | ND | ND | ND | ND | 0.05 | 7 | 0.0001 | ND | |
| S-02188.001-TP15_0.1 | 1/10/2020 | 0.1 | ND | ND | 9 | 25 | ND | 10 | 69 | ND | 0.3 | ND | ND | ND | 0.71 | 9.7 | 0.00014 | ND | |
| S-02188.001-TP15_I.0 | 1/10/2020 | 1 | ND | ND | 8 | 24 | ND | 8 | 59 | ND | ND | ND | ND | ND | 0.55 | 8.5 | 0.00014 | ND | |
| S-02188.001-TP16_0.1 | 1/10/2020 | 0.1 | 5 | ND | 15 | 11 | ND | 13 | 60 | ND | ND | ND | ND | ND | 0.24 | 9.5 | 0.0005 | ND | |
| S-02188.001-TP16_I.0 | 1/10/2020 | 1 | 6 | ND | 11 | 14 | ND | 3 | 23 | ND | ND | ND | ND | ND | 0.05 | 5 | 0.000041 | ND | |
| S-02188.001-TP17_0.1 | 1/10/2020 | 0.1 | ND | ND | 7 | 6 | ND | 5 | 13 | ND | ND | ND | ND | ND | 0.05 | 8 | 0.00025 | ND | |
| S-02188.001-TP17_0.5 | 1/10/2020 | 0.5 | ND | ND | 8 | 7 | ND | 1 | 2 | ND | ND | ND | ND | ND | 0.05 | 5.7 | 0.000028 | ND | |
| S-02188.001-TP18_0.1 | 1/10/2020 | 0.1 | ND | ND | 9 | 15 | ND | 8 | 23 | 0.1 | 1.4 | ND | ND | ND | 0.05 | 7.7 | 0.00032 | ND | |
| S-02188.001-TP18_0.5 | 1/10/2020 | 0.5 | ND | ND | 9 | 17 | ND | 9 | 26 | 0.08 | 0.4 | ND | ND | ND | 0.05 | 7.8 | 0.00032 | ND | |
| S-02188.001-TP20_0.1 | 1/10/2020 | 0.1 | ND | ND | 17 | 6 | ND | 34 | 34 | ND | ND | ND | ND | ND | 0.05 | 9 | 0.0002 | ND | |
| S-02188.001-TP20_I.0 | 1/10/2020 | 1 | ND | ND | 16 | 33 | ND | 1 | 46 | ND | ND | ND | ND | ND | 0.05 | 6 | 0.000096 | ND | |
| | | | Average | 6 | - | 11 | 18 | - | 9 | 32 | 0 | 3 | - | - | - | 290 | 0.10 | 7.485 | 0.009 |

| Legend | |
|--------|-------------------|
| ND | Non Detect |
| AD | Asbestos Detected |

TABLE D3: SUMMARY OF ANALYTICAL RESULTS FOR WASTE CLASSIFICATION



| Analyte | | | Heavy Metals | | | | | | | | PAHs | | | BTEX | | | | TRH | | PCB | OCP | Asbestos | |
|-------------------------------------|--------------|-----------|---------------|---------|----------|------|-------------|--------|---------------|--------|----------------|---------------|----------------|---------|---------------|--------------|---------|---------|------------------|------------------------------|---------------------------------|----------|--|
| | | | Total (mg/kg) | | | | TCLP (mg/L) | | Total (mg/kg) | | TCLP (mg/L) | Total (mg/kg) | | | Total (mg/kg) | | (mg/kg) | (mg/kg) | Asbestos in Soil | Asbestos Material (Fragment) | | | |
| | | | Arsenic | Cadmium | Chromium | Lead | Mercury | Nickel | Lead | Nickel | Benzo(a)Pyrene | Total PAH | Benzo(a)Pyrene | Benzene | Toluene | Ethylbenzene | Xylene | C6-C9 | C10-C36 | Total PCB | Total OCP (scheduled chemicals) | | |
| Practical Quantitation Limit (PQL) | | | 4 | 0.4 | I | I | 0.1 | I | 0.03 | 0.02 | 0.05 | 0.05 | 0.0001 | 0.2 | 0.5 | I | 3 | 25 | 250 | 0.7 | 2 | | |
| General Solid Waste (CT1) | | | 100 | 20 | 100 | 100 | 4 | 40 | | | 0.8 | 200 | | 10 | 288 | 600 | 1000 | 650 | 10000 | <50 | <50 | | |
| General Solid Waste (SCCI/TCLP1) | | | 500 | 100 | 1900 | 1500 | 50 | 1050 | 5 | 2 | 10 | 200 | 0.04 | 0.5 | 518 | 1080 | 1800 | 650 | 10000 | <50 | <50 | | |
| Restricted Solid Waste (CT2) | | | 400 | 80 | 400 | 400 | 16 | 160 | | | 3.2 | 800 | | 40 | 1152 | 2400 | 4000 | 2600 | 40000 | <50 | <50 | | |
| Restricted Solid Waste (SSC2/TCLP2) | | | 2000 | 400 | 7600 | 6000 | 200 | 4200 | 20 | 8 | 23 | 800 | 0.16 | 40 | 2073 | 4320 | 7200 | 2600 | 40000 | <50 | <50 | | |
| Special Waste (Asbestos Waste) | | | | | | | | | | | | | | | | | | | | | AD | AD | |
| Sample ID | Date Sampled | Depth (m) | | | | | | | | | | | | | | | | | | | | | |
| S-02188.001-TP01_0.1 | 1/10/2020 | 0.1 | I3 | ND | 9 | 72 | ND | I2 | - | - | 0.2 | 1.9 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP01_I.0 | 1/10/2020 | I | ND | ND | 7 | 39 | ND | 2 | - | - | 0.2 | 2.7 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP02_0.1 | 1/10/2020 | 0.1 | ND | ND | 30 | 9 | ND | 43 | - | 0.3 | 0.06 | 0.2 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP02_0.9 | 1/10/2020 | 0.9 | I4 | ND | 7 | I3 | ND | I0 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP03_0.1 | 1/10/2020 | 0.1 | 5 | ND | I3 | 55 | 0.1 | I0 | - | - | 1.5 | 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP03_I.0 | 1/10/2020 | I | ND | ND | 6 | 41 | 0.2 | I | - | - | 0.09 | 0.66 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP04_0.3 | 1/10/2020 | 0.3 | 5 | ND | 5 | I7 | ND | 5 | - | - | ND | 0.3 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP05_0.1 | 1/10/2020 | 0.1 | 5 | ND | I0 | I1 | ND | 5 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP05_I.0 | 1/10/2020 | I | ND | ND | I1 | 29 | ND | 4 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP06_0.1 | 1/10/2020 | 0.1 | ND | ND | 7 | 8 | ND | I | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP07_0.1 | 1/10/2020 | 0.1 | ND | ND | 21 | I5 | ND | 8 | - | - | ND | 0.1 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP07_I.0 | 1/10/2020 | I | ND | ND | I0 | 6 | ND | I1 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |

TABLE D3: SUMMARY OF ANALYTICAL RESULTS FOR WASTE CLASSIFICATION

| Analyte | | | Heavy Metals | | | | | | | | PAHs | | | BTEX | | | | TRH | | PCB | OCP | Asbestos | |
|-------------------------------------|--------------|-----------|---------------|---------|----------|------|-------------|--------|---------------|--------|----------------|---------------|----------------|---------|---------------|--------------|---------|---------|------------------|------------------------------|---------------------------------|----------|--|
| | | | Total (mg/kg) | | | | TCLP (mg/L) | | Total (mg/kg) | | TCLP (mg/L) | Total (mg/kg) | | | Total (mg/kg) | | (mg/kg) | (mg/kg) | Asbestos in Soil | Asbestos Material (Fragment) | | | |
| | | | Arsenic | Cadmium | Chromium | Lead | Mercury | Nickel | Lead | Nickel | Benzo(a)Pyrene | Total PAH | Benzo(a)Pyrene | Benzene | Toluene | Ethylbenzene | Xylene | C6-C9 | C10-C36 | Total PCB | Total OCP (scheduled chemicals) | | |
| Practical Quantitation Limit (PQL) | | | 4 | 0.4 | I | I | 0.1 | I | 0.03 | 0.02 | 0.05 | 0.05 | 0.0001 | 0.2 | 0.5 | I | 3 | 25 | 250 | 0.7 | 2 | | |
| General Solid Waste (CT1) | | | 100 | 20 | 100 | 100 | 4 | 40 | | | 0.8 | 200 | | 10 | 288 | 600 | 1000 | 650 | 10000 | <50 | <50 | | |
| General Solid Waste (SCCI/TCLP1) | | | 500 | 100 | 1900 | 1500 | 50 | 1050 | 5 | 2 | 10 | 200 | 0.04 | 0.5 | 518 | 1080 | 1800 | 650 | 10000 | <50 | <50 | | |
| Restricted Solid Waste (CT2) | | | 400 | 80 | 400 | 400 | 16 | 160 | | | 3.2 | 800 | | 40 | 1152 | 2400 | 4000 | 2600 | 40000 | <50 | <50 | | |
| Restricted Solid Waste (SSC2/TCLP2) | | | 2000 | 400 | 7600 | 6000 | 200 | 4200 | 20 | 8 | 23 | 800 | 0.16 | 40 | 2073 | 4320 | 7200 | 2600 | 40000 | <50 | <50 | | |
| Special Waste (Asbestos Waste) | | | | | | | | | | | | | | | | | | | | | AD | AD | |
| Sample ID | Date Sampled | Depth (m) | | | | | | | | | | | | | | | | | | | | | |
| S-02188.001-TP08_0.2 | 1/10/2020 | 0.2 | ND | ND | 7 | 6 | ND | ND | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP08_I.0 | 1/10/2020 | I | 4 | ND | 12 | 22 | ND | 5 | - | - | 0.71 | 7.9 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP09_0.I | 1/10/2020 | 0.1 | 4 | ND | 10 | 15 | ND | 8 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP09_I.5 | 1/10/2020 | 1.5 | 5 | ND | 10 | 22 | ND | 5 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP10_0.2 | 1/10/2020 | 0.2 | ND | ND | 5 | 9 | ND | 2 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP10_0.9 | 1/10/2020 | 0.9 | ND | ND | 5 | 5 | ND | ND | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP11_0.I | 1/10/2020 | 0.1 | 4 | ND | 13 | 14 | ND | 17 | - | - | 0.1 | 0.83 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP11_I.0 | 1/10/2020 | I | ND | ND | 5 | 5 | ND | ND | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP12_0.2 | 1/10/2020 | 0.2 | ND | ND | 5 | 6 | ND | 5 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP12_I.0 | 1/10/2020 | I | ND | ND | 9 | 9 | ND | 2 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP13_0.3 | 1/10/2020 | 0.3 | ND | ND | 9 | 23 | ND | 12 | - | - | ND | 0.1 | - | ND | ND | ND | ND | ND | ND | 290 | ND | - | |
| S-02188.001-TP13_I.0 | 1/10/2020 | I | ND | ND | 5 | 7 | ND | 2 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP13_I.3 | 1/10/2020 | I.3 | I2 | ND | I2 | 240 | 0.3 | 11 | ND | - | 0.05 | 0.4 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP14_0.3 | 1/10/2020 | 0.3 | ND | ND | I2 | 22 | ND | 4 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP14_I.0 | 1/10/2020 | I | ND | ND | 4 | 6 | ND | 2 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP15_0.I | 1/10/2020 | 0.1 | ND | ND | 9 | 25 | ND | 10 | - | - | ND | 0.3 | - | ND | ND | ND | ND | ND | ND | ND | ND | - | |

TABLE D3: SUMMARY OF ANALYTICAL RESULTS FOR WASTE CLASSIFICATION



| Analyte | | | Heavy Metals | | | | | | | | PAHs | | | BTEX | | | | | TRH | | PCB | OCP | Asbestos | |
|-------------------------------------|-------------------|-----------|---------------|---------|----------|------|-------------|--------|---------------|--------|----------------|---------------|----------------|---------|---------|---------------|--------|---------|---------|------------------|---------------------------------|-----|----------|--|
| | | | Total (mg/kg) | | | | TCLP (mg/L) | | Total (mg/kg) | | TCLP (mg/L) | Total (mg/kg) | | | | Total (mg/kg) | | (mg/kg) | (mg/kg) | Asbestos in Soil | Asbestos Material (Fragment) | | | |
| | | | Arsenic | Cadmium | Chromium | Lead | Mercury | Nickel | Lead | Nickel | Benzo(a)Pyrene | Total PAH | Benzo(a)Pyrene | Benzene | Toluene | Ethylbenzene | Xylene | C6-C9 | C10-C36 | Total PCB | Total OCP (scheduled chemicals) | | | |
| Practical Quantitation Limit (PQL) | | | 4 | 0.4 | 1 | 1 | 0.1 | 1 | 0.03 | 0.02 | 0.05 | 0.05 | 0.0001 | 0.2 | 0.5 | 1 | 3 | 25 | 250 | 0.7 | 2 | | | |
| General Solid Waste (CT1) | | | 100 | 20 | 100 | 100 | 4 | 40 | | | 0.8 | 200 | | 10 | 288 | 600 | 1000 | 650 | 10000 | <50 | <50 | | | |
| General Solid Waste (SCCI/TCLP1) | | | 500 | 100 | 1900 | 1500 | 50 | 1050 | 5 | 2 | 10 | 200 | 0.04 | 0.5 | 518 | 1080 | 1800 | 650 | 10000 | <50 | <50 | | | |
| Restricted Solid Waste (CT2) | | | 400 | 80 | 400 | 400 | 16 | 160 | | | 3.2 | 800 | | 40 | 1152 | 2400 | 4000 | 2600 | 40000 | <50 | <50 | | | |
| Restricted Solid Waste (SSC2/TCLP2) | | | 2000 | 400 | 7600 | 6000 | 200 | 4200 | 20 | 8 | 23 | 800 | 0.16 | 40 | 2073 | 4320 | 7200 | 2600 | 40000 | <50 | <50 | | | |
| Special Waste (Asbestos Waste) | | | | | | | | | | | | | | | | | | | | | | AD | AD | |
| Sample ID | Date Sampled | Depth (m) | | | | | | | | | | | | | | | | | | | | | | |
| S-02188.001-TP15_I.0 | 1/10/2020 | 1 | ND | ND | 8 | 24 | ND | 8 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP16_0.1 | 1/10/2020 | 0.1 | 5 | ND | 15 | 11 | ND | 13 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP16_I.0 | 1/10/2020 | 1 | 6 | ND | 11 | 14 | ND | 3 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP17_0.1 | 1/10/2020 | 0.1 | ND | ND | 7 | 6 | ND | 5 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP17_0.5 | 1/10/2020 | 0.5 | ND | ND | 8 | 7 | ND | 1 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP18_0.1 | 1/10/2020 | 0.1 | ND | ND | 9 | 15 | ND | 8 | - | - | 0.1 | 1.4 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP18_0.5 | 1/10/2020 | 0.5 | ND | ND | 9 | 17 | ND | 9 | - | - | 0.08 | 0.4 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP19_0.1 | 1/10/2020 | 0.1 | ND | ND | 23 | 5 | ND | 41 | - | | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| S-02188.001-TP19_0.3 | 1/10/2020 | 0.3 | ND | ND | 18 | 5 | ND | 38 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | 310 | ND | ND | |
| S-02188.001-TP19_0.5 | 1/10/2020 | 0.5 | ND | ND | 17 | 48 | ND | 27 | - | - | 1.8 | 27 | ND | ND | ND | ND | ND | ND | ND | 420 | ND | ND | | |
| S-02188.001-TP19_1.5 | 1/10/2020 | 1.5 | 4 | ND | 10 | 39 | ND | ND | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| S-02188.001-TP20_0.1 | 1/10/2020 | 0.1 | ND | ND | 17 | 6 | ND | 34 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-TP20_I.0 | 1/10/2020 | 1 | ND | ND | 16 | 33 | ND | 1 | - | - | ND | ND | - | ND | ND | ND | ND | ND | ND | ND | ND | ND | - | |
| S-02188.001-AS001 | | | | | | | | | - | | | | | | | | | | | | | | AD | |
| Legend | | | | | | | | | | | | | | | | | | | | | | | | |
| ND | Non Detect | | | | | | | | | | | | | | | | | | | | | | | |
| AD | Asbestos Detected | | | | | | | | | | | | | | | | | | | | | | | |
| Coloured Concentration | Criteria Exceeded | | | | | | | | | | | | | | | | | | | | | | | |

TABLE D4: QA/QC RESULTS SUMMARY



| Chem_Group | ChemName | Units | Lab Report Ref: | | Envirolab Ref: 252698-01 | Envirolab Ref: 252698-80 | RPD** | Envirolab Ref: 252698-01 | ALS Ref: ES2034920-001 | RPD** | | | |
|-------------|--------------------------------|-------|--------------------------------|-----|--------------------------|--------------------------|-------|--------------------------|------------------------|-------|--|--|--|
| | | | Field ID: | | | | | S-02188.001-TP01_0.1 | S-02188.001-QA01 | | | | |
| | | | Sampled Date: | | | | | 1/10/2020 | 1/10/2020 | | | | |
| BTEX | Benzene | mg/kg | 0.2 | | ND* | ND | - | ND | ND | - | | | |
| | Ethylbenzene | mg/kg | 1.0 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - | | | |
| | Toluene | mg/kg | 0.5 | | ND | ND | - | ND | ND | - | | | |
| | Xylene (m & p) | mg/kg | 2.0 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - | | | |
| | Xylene (o) | mg/kg | 1.0 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - | | | |
| | Total Xylene | mg/kg | 3.0 (Primary) 0.5 (Interlab) | | ND | ND | - | ND | ND | - | | | |
| Metals | Arsenic | mg/kg | 4 (Primary): 5 (Interlab) | 13 | 25 | -63 | 13 | 11 | 17 | | | | |
| | Cadmium | mg/kg | 0.4 (Primary): 1 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Chromium (III+VI) | mg/kg | 1 | 9 | 9 | 0 | 9 | 9 | 0 | | | | |
| | Copper | mg/kg | 1 (Primary): 5 (Interlab) | 19 | 19 | 0 | 19 | 21 | -10 | | | | |
| | Lead | mg/kg | 1 (Primary): 5 (Interlab) | 72 | 78 | -8 | 72 | 59 | 20 | | | | |
| | Mercury | mg/kg | 0.1 | ND | ND | - | ND | ND | - | | | | |
| | Nickel | mg/kg | 1 (Primary): 2 (Interlab) | 12 | 12 | 0 | 12 | 16 | -29 | | | | |
| | Zinc | mg/kg | 1 (Primary): 5 (Interlab) | 99 | 86 | 14 | 99 | 93 | 6 | | | | |
| OCP | 4,4-DDE | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | a-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Aldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Chlordane | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | d-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | DDT | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | DDT+DDE+DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Dieldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Endosulfan (I & II) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Endrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Endrin aldehyde | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | g-BHC (Lindane) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Heptachlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Heptachlor epoxide | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| | Methoxychlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | - | | | | |
| PAH/Phenols | Acenaphthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Acenaphthylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Benz(a)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.2 | 0.1 | 67 | 0.2 | 0.5 | -86 | | | | |
| | Benzo(a) pyrene | mg/kg | 0.05 (Primary): 0.5 (Interlab) | 0.2 | 0.1 | 67 | ND | ND | - | | | | |
| | Benzo(g,h,i)perylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.2 | 0.1 | 67 | ND | ND | - | | | | |
| | Chrysene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.1 | 0.1 | 0 | 0.1 | 0.5 | -133 | | | | |
| | Dibenz(a,h)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Fluoranthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.4 | 0.3 | 29 | 0.4 | 0.5 | -22 | | | | |
| | Fluorene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.1 | 0.1 | 0 | ND | ND | - | | | | |
| | Naphthalene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | Phenanthrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.2 | ND | - | 0.2 | 0.5 | -86 | | | | |
| | Benzo(b+j+k)fluoranthene | mg/kg | 0.2 | 0.2 | 0.2 | 0 | 0.2 | 0.5 | -86 | | | | |
| | Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.5 | 0.2 | 0.2 | 0 | 0.2 | 0.5 | -86 | | | | |
| | Pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.4 | 0.3 | 29 | 0.4 | 0.6 | -40 | | | | |
| PCB | Arochlor 1016 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Arochlor 1221 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Arochlor 1232 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Arochlor 1242 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Arochlor 1248 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Arochlor 1254 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Arochlor 1260 | mg/kg | 0.1 | - | - | - | - | - | - | | | | |
| | Total PCBs | mg/kg | 0.7 | - | - | - | - | - | - | | | | |
| TRH | C6-C10 | mg/kg | 25 | ND | ND | - | ND | ND | - | | | | |
| | C10-C16 | mg/kg | 50 | ND | ND | - | ND | ND | - | | | | |
| | C16-C34 | mg/kg | 100 | ND | ND | - | ND | ND | - | | | | |
| | C34-C40 | mg/kg | 100 | ND | ND | - | ND | ND | - | | | | |
| | C6-C10 less BTEX (F1) | mg/kg | 25 (Primary): 10 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | F2-NAPHTHALENE | mg/kg | 50 | ND | ND | - | ND | ND | - | | | | |
| | C10 - C14 | mg/kg | 50 | ND | ND | - | ND | ND | - | | | | |
| | C6 - C9 | mg/kg | 25 (Primary): 10 (Interlab) | ND | ND | - | ND | ND | - | | | | |
| | C15 - C28 | mg/kg | 100 | ND | ND | - | ND | ND | - | | | | |
| | C29-C36 | mg/kg | 100 | ND | ND | - | ND | ND | - | | | | |

*ND = Non Detect

**RPDs have only been considered where a concentration is greater than 1 times the PQL.

***High RPDs are in bold (Acceptable RPDs for each PQL multiplier range are: 80 (1-10 x PQL); 50 (10-30 x PQL); 30 (> 30 x PQL).

TABLE D4: QA/QC RESULTS SUMMARY

| Chem. Group | ChemName | Units | PQL | Lab Report Ref: | Envirolab Ref: 252698-10 | Envirolab Ref: 252698-81 | RPD** | Envirolab Ref: 252698-10 | ALS Ref: ES2034920-002 | RPD** |
|-------------|--------------------------------|-------|--------------------------------|-----------------|--------------------------|--------------------------|-------|--------------------------|------------------------|-------|
| | | | | Field ID: | S-02188.001-TP04_1.2 | S-02188.001-QA03 | | S-02188.001-TP04_1.2 | S-02188.001-QA04 | |
| | | | | Sampled Date: | 1/10/2020 | 1/10/2020 | | 1/10/2020 | 1/10/2020 | |
| BTEX | Benzene | mg/kg | 0.2 | | ND* | ND | - | ND | ND | - |
| | Ethylbenzene | mg/kg | 1.0 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Toluene | mg/kg | 0.5 | | ND | ND | - | ND | ND | - |
| | Xylene (m & p) | mg/kg | 2.0 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Xylene (o) | mg/kg | 1.0 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Total Xylene | mg/kg | 3.0 (Primary) 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| Metals | Arsenic | mg/kg | 4 (Primary): 5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Cadmium | mg/kg | 0.4 (Primary): 1 (Interlab) | | ND | ND | - | ND | ND | - |
| | Chromium (III+VI) | mg/kg | 1 | | 4 | 6 | -40 | 4 | 5 | -22 |
| | Copper | mg/kg | 1 (Primary): 5 (Interlab) | | 1 | 1 | 0 | 1 | 5 | -133 |
| | Lead | mg/kg | 1 (Primary): 5 (Interlab) | | 3 | 5 | -50 | 3 | 5 | -50 |
| | Mercury | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Nickel | mg/kg | 1 (Primary): 2 (Interlab) | | ND | ND | - | ND | ND | - |
| | Zinc | mg/kg | 1 (Primary): 5 (Interlab) | | ND | ND | - | ND | ND | - |
| OCP | 4,4-DDE | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | a-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Aldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Chlordane | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | d-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | DDT | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | DDT+DDE+DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Dieleldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Endosulfan (I & II) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Endrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Endrin aldehyde | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | g-BHC (Lindane) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Heptachlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Heptachlor epoxide | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| | Methoxychlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | - | ND | ND | - |
| PAH/Phenols | Acenaphthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Acenaphthylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Benz(a)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Benz(a) pyrene | mg/kg | 0.05 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Benz(g,h,i)perylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Chrysene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Dibenz(a,h)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Fluoranthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Fluorene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Naphthalene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Phenanthrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| | Benzo(b+j+k)fluoranthene | mg/kg | 0.2 | | ND | ND | - | ND | ND | - |
| | Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.5 | | ND | ND | - | ND | ND | - |
| | Pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | - | ND | ND | - |
| PCB | Arochlor 1016 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Arochlor 1221 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Arochlor 1232 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Arochlor 1242 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Arochlor 1248 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Arochlor 1254 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Arochlor 1260 | mg/kg | 0.1 | | ND | ND | - | ND | ND | - |
| | Total PCBs | mg/kg | 0.7 | | ND | ND | - | ND | ND | - |
| TRH | C6-C10 | mg/kg | 25 | | ND | ND | - | ND | ND | - |
| | C10-C16 | mg/kg | 50 | | ND | ND | - | ND | ND | - |
| | C16-C34 | mg/kg | 100 | | ND | ND | - | ND | ND | - |
| | C34-C40 | mg/kg | 100 | | ND | ND | - | ND | ND | - |
| | C6-C10 less BTEX (F1) | mg/kg | 25 (Primary): 10 (Interlab) | | ND | ND | - | ND | ND | - |
| | F2-NAPHTHALENE | mg/kg | 50 | | ND | ND | - | ND | ND | - |
| | C10 - C14 | mg/kg | 50 | | ND | ND | - | ND | ND | - |
| | C6 - C9 | mg/kg | 25 (Primary): 10 (Interlab) | | ND | ND | - | ND | ND | - |
| | C15 - C28 | mg/kg | 100 | | ND | ND | - | ND | ND | - |
| | C29-C36 | mg/kg | 100 | | ND | ND | - | ND | ND | - |

*ND = Non Detect

**RPDs have only been considered where a concentration is greater than 1 times the PQL.

**High RPDs are in bold (Acceptable RPDs for each PQL multiplier range are: 80 (1-10 x PQL); 50 (10-30 x PQL); 30 (> 30 x PQL).

TABLE D4: QA/QC RESULTS SUMMARY



| Chem_Group | ChemName | Units | Lab Report Ref: | | RPD** | Envirolab Ref: 252698-37 | ALS Ref: ES2034920-003 | RPD** | | | | |
|-------------|--------------------------------|-------|--------------------------------|------|-------|--------------------------|------------------------|-------|--|--|--|--|
| | | | Field ID: | | | | | | | | | |
| | | | Sampled Date: | | | | | | | | | |
| BTEX | Benzene | mg/kg | 0.2 | ND* | ND | - | ND | ND | | | | |
| | Ethylbenzene | mg/kg | 1.0 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Toluene | mg/kg | 0.5 | ND | ND | - | ND | ND | | | | |
| | Xylene (m & p) | mg/kg | 2.0 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Xylene (o) | mg/kg | 1.0 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Total Xylene | mg/kg | 3.0 (Primary) 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| Metals | Arsenic | mg/kg | 4 (Primary): 5 (Interlab) | 4 | 4 | 0 | 4 | 5 | | | | |
| | Cadmium | mg/kg | 0.4 (Primary): 1 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Chromium (III+VI) | mg/kg | 1 | 13 | 8 | 48 | 13 | 14 | | | | |
| | Copper | mg/kg | 1 (Primary): 5 (Interlab) | 22 | 1 | 183 | 22 | 5 | | | | |
| | Lead | mg/kg | 1 (Primary): 5 (Interlab) | 14 | 5 | 95 | 14 | 6 | | | | |
| | Mercury | mg/kg | 0.1 | ND | ND | - | ND | ND | | | | |
| | Nickel | mg/kg | 1 (Primary): 2 (Interlab) | 17 | 1 | 178 | 17 | 2 | | | | |
| | Zinc | mg/kg | 1 (Primary): 5 (Interlab) | 55 | 2 | 186 | 55 | 5 | | | | |
| OCP | 4,4-DDE | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | a-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Aldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Chlordane | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | d-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | DDT | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | DDT+DDE+DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Dieldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Endosulfan (I & II) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Endrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Endrin aldehyde | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | g-BHC (Lindane) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Heptachlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Heptachlor epoxide | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| | Methoxychlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | - | - | - | - | - | | | | |
| PAH/Phenols | Acenaphthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Acenaphthylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Benz(a)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Benz(a) pyrene | mg/kg | 0.05 (Primary): 0.5 (Interlab) | 0.1 | 0.05 | 67 | 0.1 | 0.05 | | | | |
| | Benz(g,h,i)perylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.05 | 0.1 | -67 | 0.05 | 0.05 | | | | |
| | Chrysene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.1 | 0.1 | 0 | 0.1 | 0.05 | | | | |
| | Dibenz(a,h)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Fluoranthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.2 | 0.1 | 67 | 0.2 | 0.05 | | | | |
| | Fluorene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Naphthalene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Phenanthrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | ND | ND | - | ND | ND | | | | |
| | Benzo(b+j+k)fluoranthene | mg/kg | 0.2 | ND | ND | - | ND | ND | | | | |
| | Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.5 | ND | ND | - | ND | ND | | | | |
| | Pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | 0.2 | 0.1 | 67 | 0.2 | 0.05 | | | | |
| PCB | Arochlor 1016 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Arochlor 1221 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Arochlor 1232 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Arochlor 1242 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Arochlor 1248 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Arochlor 1254 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Arochlor 1260 | mg/kg | 0.1 | - | - | - | - | - | | | | |
| | Total PCBs | mg/kg | 0.7 | - | - | - | - | - | | | | |
| TRH | C6-C10 | mg/kg | 25 | ND | ND | - | ND | ND | | | | |
| | C10-C16 | mg/kg | 50 | ND | ND | - | ND | ND | | | | |
| | C16-C34 | mg/kg | 100 | ND | ND | - | ND | ND | | | | |
| | C34-C40 | mg/kg | 100 | 100 | 100 | 0 | ND | ND | | | | |
| | C6-C10 less BTEX (F1) | mg/kg | 25 (Primary): 10 (Interlab) | ND | ND | - | ND | ND | | | | |
| | F2-NAPHTHALENE | mg/kg | 50 | ND | ND | - | ND | ND | | | | |
| | C10 - C14 | mg/kg | 50 | ND | ND | - | ND | ND | | | | |
| | C6 - C9 | mg/kg | 25 (Primary): 10 (Interlab) | ND | ND | - | ND | ND | | | | |
| | C15 - C28 | mg/kg | 100 | ND | ND | - | ND | ND | | | | |
| | C29-C36 | mg/kg | 100 | ND | ND | - | ND | ND | | | | |

*ND = Non Detect

**RPDs have only been considered where a concentration is greater than 1 times the PQL.

**High RPDs are in bold (Acceptable RPDs for each PQL multiplier range are: 80 (1-10 x PQL); 50 (10-30 x PQL); 30 (> 30 x PQL).

TABLE D4: QA/QC RESULTS SUMMARY

| Chem_Group | ChemName | Units | Lab Report Ref: | | Envirolab Ref: 252698-68 | Envirolab Ref: 252698-82 | Field ID: | S-02188.001-TP17_I.I | S-02188.001-QA07 | Sampled Date: | 1/10/2020 | 1/10/2020 | RPD** | Envirolab Ref: 252698-68 | ALS Ref: ES2034920-004 | S-02188.001-TP17_I.I | S-02188.001-QA08 | 1/10/2020 | 1/10/2020 | RPD** | | | | | | | | | | | | | | |
|-------------|--------------------------------|-------|--------------------------------|--|--------------------------|--------------------------|-----------|----------------------|------------------|---------------|-----------|-----------|-------|--------------------------|------------------------|----------------------|------------------|-----------|-----------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX | Benzene | mg/kg | 0.2 | | ND* | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Ethylbenzene | mg/kg | 1.0 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Toluene | mg/kg | 0.5 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Xylene (m & p) | mg/kg | 2.0 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Xylene (o) | mg/kg | 1.0 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Total Xylene | mg/kg | 3.0 (Primary) 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| Metals | Arsenic | mg/kg | 4 (Primary): 5 (Interlab) | | 4 | 4 | | 0 | | 4 | 5 | | -22 | | | | | | | | | | | | | | | | | | | | | |
| | Cadmium | mg/kg | 0.4 (Primary): 1 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Chromium (III+VI) | mg/kg | 1 | | 7 | 8 | | -13 | | 7 | 6 | | 15 | | | | | | | | | | | | | | | | | | | | | |
| | Copper | mg/kg | 1 (Primary): 5 (Interlab) | | 1 | 2 | | -67 | | 1 | 5 | | -133 | | | | | | | | | | | | | | | | | | | | | |
| | Lead | mg/kg | 1 (Primary): 5 (Interlab) | | 7 | 9 | | -25 | | 7 | 7 | | 0 | | | | | | | | | | | | | | | | | | | | | |
| | Mercury | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Nickel | mg/kg | 1 (Primary): 2 (Interlab) | | 3 | 3 | | 0 | | 3 | 2 | | 40 | | | | | | | | | | | | | | | | | | | | | |
| | Zinc | mg/kg | 1 (Primary): 5 (Interlab) | | 7 | 10 | | -35 | | 7 | 5 | | 33 | | | | | | | | | | | | | | | | | | | | | |
| OCP | 4,4-DDE | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | a-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Aldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Chlordane | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | d-BHC | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | DDT | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | DDT+DDE+DDD | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Dieldrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Endosulfan (I & II) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Endrin | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Endrin aldehyde | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | g-BHC (Lindane) | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Heptachlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Heptachlor epoxide | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Methoxychlor | mg/kg | 0.1 (Primary): 0.05 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| PAH/Phenols | Acenaphthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Acenaphthylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Benz(a)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Benz(a) pyrene | mg/kg | 0.05 (Primary): 0.5 (Interlab) | | 0.1 | 0.05 | | 67 | | 0.1 | 0.5 | | -133 | | | | | | | | | | | | | | | | | | | | | |
| | Benz(g,h,i)perylene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Chrysene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Dibenz(a,h)anthracene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Fluoranthene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Fluorene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Naphthalene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Phenanthrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Benz(b+j+k)fluoranthene | mg/kg | 0.2 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Benzo(a)pyrene TEQ calc (Zero) | mg/kg | 0.5 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Pyrene | mg/kg | 0.1 (Primary): 0.5 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| PCB | Arochlor 1016 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Arochlor 1221 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Arochlor 1232 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Arochlor 1242 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Arochlor 1248 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Arochlor 1254 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Arochlor 1260 | mg/kg | 0.1 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | Total PCBs | mg/kg | 0.7 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| TRH | C6-C10 | mg/kg | 25 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C10-C16 | mg/kg | 50 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C16-C34 | mg/kg | 100 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C34-C40 | mg/kg | 100 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C6-C10 less BTEX (F1) | mg/kg | 25 (Primary): 10 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | F2-NAPHTHALENE | mg/kg | 50 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C10 - C14 | mg/kg | 50 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C6 - C9 | mg/kg | 25 (Primary): 10 (Interlab) | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C15 - C28 | mg/kg | 100 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |
| | C29-C36 | mg/kg | 100 | | ND | ND | | - | | ND | ND | | - | | | | | | | | | | | | | | | | | | | | | |

*ND = Non Detect

**RPDs have only been considered where a concentration is greater than 1 times the PQL.

**High RPDs are in bold (Acceptable RPDs for each PQL multiplier range are: 80 (1-10 x PQL); 50 (10-30 x PQL); 30 (> 30 x PQL).

Appendix E: Quality Assurance / Quality Control

SOIL SAMPLE LOCATION AND ANALYSIS

Details of the samples collected and analysed as part of this investigation are provided in **Table E1** below.

Table E1: Soil Sample Location and Analysis

| Sample Location | Depth (m) | Date | Justification | CoPC/Analysis |
|-----------------|-----------|----------------|--|--|
| TP01 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil. |
| TP01 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, |
| TP02 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil, TCLP (Nickel) |
| TP02 | 0.5 m | 1 October 2020 | Within area of historical filling | On hold |
| TP02 | 0.9 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP03 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil, TCLP (PAH) |
| TP03 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP03 | 1.2 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP04 | 0.3 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP04 | 1.2 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP05 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP05 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP05 | 1.4 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH01 | 2.0 m | 2 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, |

| Sample Location | Depth (m) | Date | Justification | CoPC/Analysis |
|-----------------|-----------|----------------|--|--|
| | | | | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH01 | 3.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH01 | 4.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH01 | 5.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP06 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP06 | 1.0 m | 1 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP07 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP07 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP07 | 1.3 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| BH05 | 2.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH05 | 3.0 m | 2 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH05 | 4.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH05 | 5.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP08 | 0.2 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP08 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP08 | 1.2 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |

| Sample Location | Depth (m) | Date | Justification | CoPC/Analysis |
|-----------------|-----------|----------------|--|---|
| TP09 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP09 | 1.0 m | 1 October 2020 | Within area of historical filling | On hold |
| TP09 | 1.5 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP10 | 0.2 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP10 | 0.9 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP10 | 1.0 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP11 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP11 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP11 | 1.2 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| TP12 | 0.2 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP12 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP12 | 1.3 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| TP13 | 0.3 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP13 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP13 | 1.3 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |

| Sample Location | Depth (m) | Date | Justification | CoPC/Analysis |
|-----------------|-----------|----------------|--|--|
| BH02 | 2.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test |
| BH02 | 3.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test |
| BH02 | 4.0 m | 2 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| BH02 | 5.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test |
| TPI4 | 0.3 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI4 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI4 | 1.2 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| TPI5 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI5 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI5 | 1.4 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH03 | 2.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH03 | 3.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH03 | 4.0 m | 2 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH03 | 5.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TPI6 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |

| Sample Location | Depth (m) | Date | Justification | CoPC/Analysis |
|-----------------|-----------|----------------|--|--|
| TPI6 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI6 | 1.2 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| BH04 | 2.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test |
| BH04 | 3.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH04 | 4.0 m | 2 October 2020 | Within natural soils suspected to be ASS | sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| BH04 | 5.0 m | 2 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| TPI7 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI7 | 0.5 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TPI7 | 1.1 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |
| TP18 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP18 | 0.5 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP18 | 1.0 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test, Chromium Reducible Sulfur Suite. |
| TP19 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil |
| TP19 | 0.3 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil |
| TP19 | 0.5 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil |
| TP19 | 1.5 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil |
| TP20 | 0.1 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |

| Sample Location | Depth (m) | Date | Justification | CoPC/Analysis |
|-----------------|-----------|----------------|--|--|
| TP20 | 1.0 m | 1 October 2020 | Within area of historical filling | Metals, TRH, BTEXN, PAHs, pH, EC, Foreign Materials, Asbestos in Soil |
| TP20 | 1.5 m | 1 October 2020 | Within natural soils suspected to be ASS | Metals, TRH, BTEXN, PAHs, PCBs, OCP/OPP, Asbestos in Soil, sPOCAS Field Test |

DATA QUALITY OBJECTIVES

Systematic planning and verification is critical to successful implementation of the SCA to ensure that the data is reliable and representative. A process for establishing DQOs for an investigation has been defined by the United States Environmental Protection Agency (US EPA). That process has been adopted by AS4482.1-2005 and referenced in NEPM 2013.

DQOs ensure that:

- The study objectives are set;
- Appropriate types of data are collected (based on potential sources of contamination and CoPC); and
- The tolerance levels are set for potential decision-making errors.

The DQO process is a seven-step iterative planning approach used to plan for environmental data collection activities. It provides a systematic approach for defining the criteria that a data collection design should satisfy, including when, where and how to collect samples or measurements, determination of tolerable decision error rates and the number of samples or measurements that should be collected. The seven-step process for this investigation is discussed and summarised in **Table E2**.

Table E2: Data Quality Objectives

| Process | DQO |
|--|--|
| Step 1: State the Problem | There was the potential for contaminants to be present within the in-situ soils at the site as a result of the historical site uses at concentrations that may pose a risk to human health and the environment. |
| Step 2: Identify the Decisions | <p>The decisions to be made based on the results of the risk assessment were as follows:</p> <ul style="list-style-type: none"> • Are CoPC present within soil, and if so, do they present an unacceptable risk to human health and the environment based the proposed soil disturbance during the planned earthworks and in light of the ongoing residential use • If soil contamination is identified, does this pose a potentially unacceptable risk to human health and the environment? • Do in-situ soils at the site meet the definition of ENM? • What is the waste classification of the soils that require offsite disposal? |
| Step 3: Identify Inputs in the Decision | <p>The inputs required to make the above decisions were as follows:</p> <ul style="list-style-type: none"> • Site setting and available background information and previous analytical data; • Selection of appropriate Tier 1 soil assessment criteria; • Visual observations; and • Field and laboratory analytical results. |
| Step 4: Define Boundaries of the Study | <p>The geographical limits appropriate for the data collection and decision making in this investigation comprised the soils within the Stage 3 development with an approximate area of 8,884 m² as shown on Figure 2 provided in Appendix A.</p> |
| Step 5: Develop a Decision Rule | <p>The adopted site assessment criteria for the CoPC within the soils during this assessment are outlined in Section 10 of the report and presented in Tables D1 – D3 provided in Appendix A. Based on the disturbance of the soils, the potential onsite application within an area onsite where the soil is accessible for residential uses.</p> <p><u>Human-Health Based Criteria</u></p> <ul style="list-style-type: none"> • Where the data sets were not sufficiently populated to allow calculation of the 95% upper confidence limit (UCLmean) then the individual results must be less than the adopted criteria. If all the individual results are below the adopted criteria, then no additional assessment and/or management is required. Where individual results exceed that adopted criteria, then further assessment and/or management is required. • In accordance with the NEPM 2013, where 95% UCLmean of the average concentration for each soil analyte can be calculated, then the 95% UCLmean must be below the |

| Process | DQO |
|--|---|
| | <p>adopted criteria; no single analyte concentration exceeds 250% of the adopted criteria; the standard deviation of the results must be less than 50% of the adopted criteria; and the normal distribution will only be used where the coefficient of variance is not greater than 1.2.</p> <ul style="list-style-type: none"> Allowances to these decision rules apply where alternative 95% UCL methods that are not based on normal or log-normal distributions are adopted. Where 95% UCLmean results exceed the criteria, then further assessment and/or management is required. Asbestos contamination will be assessed based on exceedance of individual results, as statistical assessment is not applicable. |
| Step 6: Specify Limits on Decision Errors | <p>The acceptable limits on decision errors applied during the assessment on the site and the manner of addressing possible decision errors were developed based on the DQIs of:</p> <ul style="list-style-type: none"> Accuracy: a quantitative measure of the closeness of reported data to the true value; Comparability: a qualitative parameter expressing the confidence with which one data set can be compared with another; Completeness: a measure of the amount of useable data (expressed as %) from a data collection activity; Representativeness: the confidence (expressed qualitatively) that data are representative of each media present on the site; and Precision: a quantitative measure of the variability (or reproducibility) of data. <p><u>Acceptance Limits for Decision Errors</u></p> <p>The acceptable limits were as follows:</p> <ul style="list-style-type: none"> Individual or 95% UCLmean concentrations are below the adopted criteria; and 95% of the data will satisfy the DQIs which were determined for completeness, representativeness, precision and accuracy of both field and laboratory data. Therefore, the limit on the decision error will be 5% that a conclusive statement may be incorrect. |
| Step 7: Optimise the Design | <p>A systematic based sampling pattern was designed based on the findings of the desktop investigation. The suite of CoPC was selectively adopted for assessment to provide characterisation of the status of potential soil contamination based on the assessment of the potential source of contamination associated with historic landfilling at the site.</p> |

DATA QUALITY INDICATORS

The DQIs based on the DQOs for the assessment are presented in **Table E3**.

Table E3: DQO, Requirements and DQI

| DQO | Requirement | DQI |
|---|---|---|
| Precision | | |
| Standard operating procedures appropriate and complied with | The sampling methods comply with industry standard and guidelines | Meet requirement |
| Field duplicates | 1 per 10 primary samples for chemical contaminants (excluding asbestos) | Relative Percentage Difference (RPDs) < 50% |
| Laboratory duplicates | 1 per batch per analyte | RPDs < 50 % |
| Accuracy | | |
| Trip blanks | 1 per batch of samples | Results < PQL |
| Trip spikes | 1 per batch of samples | Recoveries 70 to 130% |
| Rinsate blanks | 1 per piece of equipment per day of sampling | Results < PQL |
| Field blanks | 1 per day of sampling | Results < PQL |
| Laboratory matrix spikes | 1 per batch per volatile/semi-volatile analyte | Recoveries 70% to 130% |
| Laboratory surrogate spikes | 1 per volatile/semi-volatile analyte sample (as appropriate) | Recoveries 70% to 130% |
| Laboratory control samples | At least 1 per batch per analyte tested | Result < PQL |
| Representativeness | | |
| Sampling methodology – preservation | Appropriate for the sample type and analysis | Meet requirement |
| Samples extracted and analysed within holding times | Specific to each analyte | Meet requirement |
| Field equipment calibration | All field equipment calibrated, and calibration records provided | Meet requirement |
| Laboratory method banks | At least 1 per batch per analyte tested for | Result < PQL |
| Comparability | | |
| Sampling approach | Consistent with each sample | Meet requirement |
| Analysis methodology | Consistent methodology for each sample | Meet requirement |
| Handling conditions and sampler | Consistent for each sample | Meet requirement |
| Field observations and analytical | Field observations support analytical results | Meet requirement |
| Consistent laboratory reporting limit | Consistent for each sample | Meet requirement |
| Completeness | | |
| Sampling staff | Consistent sampling staff used | Meet requirement |
| Laboratory accreditation | NATA accredited laboratories and methods used | Meet requirement |
| Accredited methods | NATA accredited methods used appropriate for each analyte | Meet requirement |
| NEPM 2013 laboratory methods | Laboratory methods consistent with the NEPM 2013 | Meet requirement |
| COC documentation | Appropriately completed | Meet requirement |
| Field sampling decontamination | Appropriately completed | Meet requirement |

QUALITY ASSURANCE/ QUALITY CONTROL

Sampling Procedures

Fieldwork was undertaken by experienced EDP environmental consultants/LAAs in accordance with EDP's Standard Operating Procedures (SOPs) based on work practices defined by industry accepted standard practice and NEPM 2013.

Phosphate-free detergent was used to clean sampling instruments between sample locations. The sampling instruments were rinsed in deionised water and then sprayed with deionised water to minimise the potential for cross-contamination to occur.

Samples were placed directly into laboratory supplied jars and bags. The samples were stored on ice before being transported to the laboratory along with COC documentation, which is included in **Appendix F**.

Field Duplicates Samples

The purpose of field duplicate samples was to estimate the variability of a given characteristic or contaminant associated with a population.

Field duplicate soil samples were collected from soil immediately adjacent to the primary sample by placing approximately equal portions of the primary sample into two sample jars. Samples were labelled so as to conceal their relationship to the primary sample from the laboratory.

The blind and split duplicate samples analysed are outlined in **Table E4**

Table E4: Field Blind and Split Duplicate Samples Analysed

| Medium | Primary Sample | Blind Duplicate | Split Duplicate | Analysis |
|--------|----------------------|-----------------|-----------------|---|
| Soil | S-02188.001_TP01-0.1 | QA01 | QA02 | Metals, PAH, BTEX, TRH |
| Soil | S-02188.001_TP04-1.2 | QA03 | QA04 | Metals, TRH, BTEXN, PAHs, OCP/OPP, PCBs |
| Soil | S-02188.001_TP11-1.0 | QA05 | QA06 | Metals, PAH, BTEX, TRH |
| Soil | S-02188.001_TP17-1.1 | QA07 | QA08 | Metals, TRH, BTEXN, PAHs, OCP/OPP, PCBs |
| Soil | S-02188.001_BH02-2.0 | QA09 | QA10 | On hold |

The quantity of duplicate samples analysed conformed to the frequency set in the DQI outlined in **Table E3**.

RPDs were calculated for each of the duplicate samples analysed. RPDs were calculated by dividing the difference between the primary sample and duplicate sample by the average of the two, as shown below:

$$RPD = \frac{(X_1 - X_2)}{(X_1 + X_2)/2} \times 100\%$$

Where: X_1 = Primary sample result; and

X_2 = Replicate sample result.

When calculating the RPDs, the following procedures were also considered:

- RPDs were only considered when a concentration was greater than the PQL; and
- In instances where results were greater than the PQL for the one sample, but below PQL for the corresponding primary or duplicate sample, a result equal to the PQL value was adopted where necessary in order to make a calculation possible.

RPDs for duplicate samples were calculated and the results are attached in **Table D4** provided in **Appendix D**.

RPDs for primary and duplicate samples were generally found to be within the acceptable limits, as summarised in **Table E5**.

Table E5: Field Blind and Split Duplicate RPD Results

| Medium | Primary Sample | Blind Duplicate | Split Duplicate | Results |
|--------|----------------------|-----------------|-----------------|--|
| Soil | S-02188.001_TP01-1.1 | QA01 | QA02 | RPD results were within the acceptable ranges set out in the DQIs in Table E3 |
| Soil | S-02188.001_TP04-1.2 | QA03 | QA04 | RPD results were within the acceptable ranges set out in the DQIs, with the exception of arsenic (-63%), benzo(a)anthracene (67% and -86%), benzo(a)pyrene (67%), chrysene (-133%), benzo(g,h,i) perylene (67%), phenanthrene (-86%), benzo(b+j+k)fluoranthene (-86%) and benzo(a)pyrene TEQ calc (Zero) (-86%). |
| Soil | S-02188.001_TP11-1.0 | QA05 | QA06 | RPD results were within the acceptable ranges set out in the DQIs, with the exception of copper (-133%). |
| Soil | S-02188.001_TP17-1.1 | QA07 | QA08 | RPD results were within the acceptable ranges set out in the DQIs, with the exception of copper (-67% and -133%), lead (95% and 80%), nickel (178 % and 158%), zinc (186 % and 167%), benzo(a)pyrene (67%), benzo(g,h,i) perylene (-67%), fluoranthene (67% and 120%) and pyrene (67% and 120%). |
| Soil | S-02188.001_BH02-2.0 | QA09 | QA06 | RPD results were within the acceptable ranges set out in the DQIs, with the exception of copper (183% and 126%), and benzo(a)pyrene (67% and -133%). |

The RPDs of the soil duplicated sample pairs were generally below the acceptable limits. The exceedance of RPDs from primary samples and duplicate samples were likely attributable to heterogeneity of the fill. The RPD exceedances are not deemed to indicate significant deficiencies in the sampling methodology but rather related primarily to variations within soil samples, given the percentage of samples reported within acceptable ranges and that none of the deficiencies exceeded the adopted investigation or screening criteria. Therefore, the elevated RPDs are not considered to affect the integrity of reliability of the overall results.

Blank and Spike Samples

Rinsate blanks, field blanks and trip blanks were collected and submitted for laboratory analysis as outlined in **Table E3**.

Rinsate blanks consist of pre-preserved bottles filled with laboratory prepared water that is passed over decontaminated field equipment and then collected in containers used for the sampling process. Rinsate blanks were preserved in a similar manner to the original samples. Rinsate blanks were a check on decontamination procedures.

Field blanks were used to assess if the ambient condition of the site may influence the quality of the samples and were prepared by filling distilled water into laboratory supplied sample bottles. The bottles were uncapped and left on-site for the duration of the sampling.

Trip blanks were used to assess the potential for cross contamination between transit from the site to the laboratory. Trip spikes were used to assess for the potential loss of volatile constituents from samples whilst in transit from the site to the laboratory. Trip blank and spike samples were prepared by the primary laboratory, carried to the field unopened and subjected to the same preservation methods as the primary field samples. Samples were analysed for volatile compounds.

Table E6: Blank and Spike Analytical Schedule

| Type/Medium | Sample | Date | Analysis | Results |
|-----------------------|--------|-----------|--|--|
| Trip Blank (Soil) | TB01 | 1/10/2020 | TRH C ₆ - C ₉ , TRH C ₆ - C ₁₀ BTEXN | Concentrations were less than PQLs as outlined in DQIs |
| Trip Blank (Soil) | TB02 | 2/10/2020 | TRH C ₆ - C ₉ , TRH C ₆ - C ₁₀ BTEXN | Concentrations were less than PQLs as outlined in DQIs |
| Trip Spike (Soil) | TS01 | 1/10/2020 | BTEXN | Recoveries within acceptable limits as outlined by the DQIs. |
| Trip Spike (Soil) | TS02 | 2/10/2020 | BTEXN | Recoveries within acceptable limits as outlined by the DQIs. |
| Rinsate Blank (Water) | RB01 | 1/10/2020 | TRH, BTEXN, PAH, OCP/OPP, PCBs, metals | Concentrations were less than the DQIs. |
| Rinsate Blank (Water) | RB02 | 2/10/2020 | TRH, BTEXN, PAH, OCP/OPP, PCBs, metals | Concentrations were less than the DQIs. |
| Field Blank (Water) | FB01 | 1/10/2020 | - | On hold pending results. |
| Field Blank (Water) | FB02 | 2/10/2020 | - | On hold pending results. |

The quantity of blank and spike samples analysed conformed to the frequency set in the DQIs outlined in **Table E3**.

Based on the results it can be considered that:

- Decontamination procedures were adequate, and contaminants were unlikely to have been introduced by contact of the sampling equipment with the soil sampled; and
- Cross contamination from the atmosphere, in prepared deionised water or between transit of samples from the site to the laboratory was unlikely to have occurred.

Laboratory QA/QC

The laboratory conducted their own internal quality program for assessment of the repeatability of the analytical procedures and instrument accuracy under their NATA accreditation. This included analysis of laboratory blank samples, duplicate samples, spike samples, control samples and surrogate spikes. The laboratory QA/QC procedures and results are described within the laboratory reports presented in **Appendix F**.

The laboratory internal QA/QC sample results were reviewed and were consistent with the laboratory's NATA guidelines. Furthermore, the adoption of the general advisory ranges for specific recoveries has been used to screen laboratory data. Where recoveries were outside these ranges the data was assessed in relation to specific laboratory comments, published industry 'norms' for specific parameters and/or the likely impact on the interpretation of the meaning of the results.

Based on the reported laboratory QA/QC samples and methods used, the results were considered to be acceptable.

Summary

Based on the results of the QA/QC assessment, the data was appropriate for the objectives of the assessment. Given the level of field and laboratory QA measures adhered to, the level of QC analysis conducted was considered to be appropriate based on the sampling frequency and nature of the assessment and as such the DQIs outlined in **Table E3** are considered to have been met.

Appendix F: NATA Accredited Laboratory Reports



CHAIN OF CUSTODY - Client

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Perth Lab - MPL Laboratories
16-18 Hayden Crt Myaree, WA 6154
Ph 08 9317 2505 / lab@mpl.com.au

Melbourne Lab - Envirolab Services
1A Dalmore Drive Scoresby VIC 3179
Ph 03 9763 2500 / melbourne@envirolab.com.au

Brisbane Office - Envirolab Services
20a, 10-20 Depot St, Banyo, QLD 4014
Ph 07 3266 9532 / brisbane@envirolab.com.au

**Adelaide Office - Envirolab Services
7a The Parade, Norwood, SA 5067
Ph 0406 350 706 / adelaide@envirolab.com.au**

Comments

Provide as much information about the sample as you can

EnviroLab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 8810 6200

3/10 -

جذب

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ambient

repacks

БРОКЕРЫ

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| | | | | | | | | | | | | | | |
|----|----------------------|-----|-----------|----------|---|---|---|---|---|--|--|--|--|--|
| 69 | S-02188.001-TP18_0.1 | 0.1 | 1/10/2020 | Soil | X | | | | | | | | | |
| 70 | S-02188.001-TP18_0.5 | 0.5 | 1/10/2020 | Soil | X | | | | | | | | | |
| 71 | S-02188.001-TP18_1.0 | 1 | 1/10/2020 | Soil | X | X | X | | | | | | | |
| 72 | S-02188.001-TP19_0.1 | 0.1 | 1/10/2020 | Soil | X | | | | | | | | | |
| 73 | S-02188.001-TP19_0.3 | 0.3 | 1/10/2020 | Soil | X | | | | | | | | | |
| 74 | S-02188.001-TP19_0.5 | 0.5 | 1/10/2020 | Soil | X | | | | | | | | | |
| 75 | S-02188.001-TP19_1.5 | 1.5 | 1/10/2020 | Soil | X | | | | | | | | | |
| 76 | S-02188.001-TP20_0.1 | 0.1 | 1/10/2020 | Soil | X | | | | | | | | | |
| 77 | S-02188.001-TP20_1.0 | 1 | 1/10/2020 | Soil | X | | | | | | | | | |
| 78 | S-02188.001-TP20_1.5 | 1.5 | 1/10/2020 | Soil | X | X | X | | | | | | | |
| 79 | S-02188.001-AS001 | 0.5 | 1/10/2020 | Fragment | | X | | | | | | | | |
| 80 | S-02188.001-QA01 | 1 | 1/10/2020 | Soil | X | | | | | | | | | |
| — | S-02188.001-QA02 | 1 | 1/10/2020 | Soil | | | | X | | | | | | |
| 81 | S-02188.001-QA03 | 1 | 1/10/2020 | Soil | X | | | | | | | | | |
| — | S-02188.001-QA04 | 1 | 1/10/2020 | Soil | | | | X | | | | | | |
| 82 | S-02188.001-QA05 | 1 | 1/10/2020 | Soil | X | | | | | | | | | |
| — | S-02188.001-QA06 | 1 | 1/10/2020 | Soil | | | | X | | | | | | |
| 83 | S-02188.001-QA07 | 1 | 1/10/2020 | Soil | X | | | | | | | | | |
| — | S-02188.001-QA08 | 1 | 1/10/2020 | Soil | | | | X | | | | | | |
| 84 | S-02188.001-QA09 | 2 | 2/10/2020 | Soil | | | | | X | | | | | |
| 85 | S-02188.001-QA10 | 2 | 2/10/2020 | Soil | | | | | X | | | | | |
| 86 | S-02188.001-RB01 | 1 | 1/10/2020 | Water | X | | | | | | | | | |
| 87 | S-02188.001-RB02 | 2 | 2/10/2020 | Water | X | | | | | | | | | |
| 88 | S-02188.001-TB01 | 1 | 1/10/2020 | Soil | | | | | X | | | | | |
| 89 | S-02188.001-TB02 | 2 | 2/10/2020 | Soil | | | | | X | | | | | |
| 90 | S-02188.001-TS01 | 1 | 1/10/2020 | Soil | | | | | X | | | | | |
| 91 | S-02188.001-TS02 | 2 | 2/10/2020 | Soil | | | | | X | | | | | |

| | | |
|--|----------------------------------|--|
| Relinquished by (Company): EDP Consultants | Received by (Company): <i>ES</i> | <i>Lab use only:</i> |
| Print Name: Matthew Konza | Print Name: <i>Andy Zhang</i> | Samples Received: Cool or Ambient (circle one) |
| Date & Time: 2/10/20 | Date & Time: <i>2/10 2020</i> | Temperature Received at: <u>12.9</u> (if applicable) |
| Signature:  | Signature: <i>AB</i> | Transported by: Hand delivered / courier |

Extra:
92 S-02188.001 -TP04-1.0.
93 S-02188.001 -TP14-0.3
94. S-02188.001 -TP14-1.0

Sail
↓
Boat
↓

| Sample ID | Chromium Suite | On Hold |
|--|----------------|---------|
| S-02188.001-BH04_5.0-5 | ✓ | |
| S-02188.001-TP17_0.1-0.1 | ✓ | |
| S-02188.001-TP17_0.5-0.5 | ✓ | |
| S-02188.001-TP17_1.1-1.1 | ✓ | |
| S-02188.001-TP18_0.1-0.1 | ✓ | |
| S-02188.001-TP18_0.5-0.5 | ✓ | |
| S-02188.001-TP18_1.0-1 | ✓ | |
| S-02188.001-TP19_0.1-0.1 | ✓ | |
| S-02188.001-TP19_0.3-0.3 | ✓ | |
| S-02188.001-TP19_0.5-0.5 | ✓ | |
| S-02188.001-TP19_1.5-1.5 | ✓ | |
| S-02188.001-TP20_0.1-0.1 | ✓ | |
| S-02188.001-TP20_1.0-1 | ✓ | |
| S-02188.001-TP20_1.5-1.5 | ✓ | |
| S-02188.001-AS001-0.5 | ✓ | |
| S-02188.001-QA01 | ✓ | |
| S-02188.001-QA03 | ✓ | |
| S-02188.001-QA05 | ✓ | |
| S-02188.001-QA07 | ✓ | |
| S-02188.001-QA09 | ✓ | |
| S-02188.001-QA10 | ✓ | |
| S-02188.001-RB01 | ✓ | |
| S-02188.001-RB02 | ✓ | |
| S-02188.001-TB01 | ✓ | |
| S-02188.001-TB02 | ✓ | |
| S-02188.001-TS01 | ✓ | |
| S-02188.001-TS02 | ✓ | |
| S-02188.001-TP04_1.0-1.0 | ✓ | |
| S-02188.001-TP14_0.3-0.3 | ✓ | |
| S-02188.001-TP14_1.0-1.0 | ✓ | |
| S-02188.001-TP08_1.2 - [TRIPPLICATE]-1.2 | ✓ | |

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

SAMPLE RECEIPT ADVICE

Client Details

| | |
|-----------|-------------------------|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |

Sample Login Details

| | |
|--------------------------------------|-------------|
| Your reference | S-02188.001 |
| Envirolab Reference | 252698-A |
| Date Sample Received | 02/10/2020 |
| Date Instructions Received | 27/10/2020 |
| Date Results Expected to be Reported | 27/10/2020 |

Sample Condition

| | |
|--|---------------------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 93 soil, 1 material |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 12.9 |
| Cooling Method | Ice |
| Sampling Date Provided | YES |

Comments

Nil

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|------------------------------|--------------------------------|
| Phone: 02 9910 6200 | Phone: 02 9910 6200 |
| Fax: 02 9910 6201 | Fax: 02 9910 6201 |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:

| Sample ID | Chromium Suite | On Hold |
|--------------------------|----------------|---------|
| S-02188.001-TP01_0.1-0.1 | ✓ | |
| S-02188.001-TP01_1.0-1 | ✓ | |
| S-02188.001-TP02_0.1-0.1 | ✓ | |
| S-02188.001-TP02_0.5-0.5 | ✓ | |
| S-02188.001-TP02_0.9-0.9 | ✓ | |
| S-02188.001-TP03_0.1-0.1 | ✓ | |
| S-02188.001-TP03_1.0-1 | ✓ | |
| S-02188.001-TP03_1.2-1.2 | ✓ | |
| S-02188.001-TP04_0.3-0.3 | ✓ | |
| S-02188.001-TP04_1.2-1.2 | ✓ | |
| S-02188.001-TP05_0.1-0.1 | ✓ | |
| S-02188.001-TP05_1.0-1 | ✓ | |
| S-02188.001-TP05_1.4-1.4 | ✓ | |
| S-02188.001-BH01_2.0-2 | ✓ | |
| S-02188.001-BH01_3.0-3 | ✓ | |
| S-02188.001-BH01_4.0-4 | ✓ | |
| S-02188.001-BH01_5.0-5 | ✓ | |
| S-02188.001-TP06_0.1-0.1 | ✓ | |
| S-02188.001-TP06_1.0-1 | ✓ | |
| S-02188.001-TP07_0.1-0.1 | ✓ | |
| S-02188.001-TP07_1.0-1 | ✓ | |
| S-02188.001-TP07_1.3-1.3 | ✓ | |
| S-02188.001-BH05_2.0-2 | ✓ | |
| S-02188.001-BH05_3.0-3 | ✓ | |
| S-02188.001-BH05_4.0-4 | ✓ | |
| S-02188.001-BH05_5.0-5 | ✓ | |
| S-02188.001-TP08_0.2-0.2 | ✓ | |
| S-02188.001-TP08_1.0-1 | ✓ | |
| S-02188.001-TP08_1.2-1.2 | ✓ | |
| S-02188.001-TP09_0.1-0.1 | ✓ | |
| S-02188.001-TP09_1.0-1 | ✓ | |
| S-02188.001-TP09_1.5-1.5 | ✓ | |

| Sample ID | Chromium Suite | On Hold |
|--------------------------|----------------|---------|
| S-02188.001-TP10_0.2-0.2 | ✓ | |
| S-02188.001-TP10_0.9-0.9 | ✓ | |
| S-02188.001-TP10_1.0-1 | ✓ | |
| S-02188.001-TP11_0.1-0.1 | ✓ | |
| S-02188.001-TP11_1.0-1 | ✓ | |
| S-02188.001-TP11_1.2-1.2 | ✓ | |
| S-02188.001-TP12_0.2-0.2 | ✓ | |
| S-02188.001-TP12_1.0-1 | ✓ | |
| S-02188.001-TP12_1.3-1.3 | ✓ | |
| S-02188.001-TP13_0.3-0.3 | ✓ | |
| S-02188.001-TP13_1.0-1 | ✓ | |
| S-02188.001-TP13_1.3-1.3 | ✓ | |
| S-02188.001-BH02_2.0-2 | ✓ | |
| S-02188.001-BH02_3.0-3 | ✓ | |
| S-02188.001-BH02_4.0-4 | ✓ | |
| S-02188.001-BH02_5.0-5 | ✓ | |
| S-02188.001-TP14_0.3-0.3 | ✓ | |
| S-02188.001-TP14_1.0-1 | ✓ | |
| S-02188.001-TP14_1.2-1.2 | ✓ | |
| S-02188.001-TP15_0.1-0.1 | ✓ | |
| S-02188.001-TP15_1.0-1 | ✓ | |
| S-02188.001-TP15_1.4-1.4 | ✓ | |
| S-02188.001-BH03_2.0-2 | ✓ | |
| S-02188.001-BH03_3.0-3 | ✓ | |
| S-02188.001-BH03_4.0-4 | ✓ | |
| S-02188.001-BH03_5.0-5 | ✓ | |
| S-02188.001-TP16_0.1-0.1 | ✓ | |
| S-02188.001-TP16_1.0-1 | ✓ | |
| S-02188.001-TP16_1.2-1.2 | ✓ | |
| S-02188.001-BH04_2.0-2 | ✓ | |
| S-02188.001-BH04_3.0-3 | ✓ | |
| S-02188.001-BH04_4.0-4 | ✓ | |

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.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 252698

Client Details

| | |
|-----------|--|
| Client | EDP Consultants Pty Ltd |
| Attention | Matthew Konza |
| Address | Suite 6/52 Atchison St, ST LEONARDS, NSW |

Sample Details

| | |
|--------------------------------------|---------------------|
| Your Reference | S-02188.001 |
| Number of Samples | 93 soil, 1 material |
| Date samples received | 02/10/2020 |
| Date completed instructions received | 02/10/2020 |

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 | 12/10/2020 |
| Date of Issue | 12/10/2020 |
| 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 * | |

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Wonnie Condos, Panika Wongchanda
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Authorised By



Nancy Zhang, Laboratory Manager

Results Approved By

Diego Bigolin, Team Leader, Inorganics
 Dragana Tomas, Senior Chemist
 Hannah Nguyen, Senior Chemist
 Jaimie Loa-Kum-Cheung, Metals Supervisor
 Lucy Zhu, Asbestos Supervisor
 Manju Dewendrage, Chemist
 Priya Samarawickrama, Senior Chemist
 Steven Luong, Organics Supervisor

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-1 S-02188.001- TP01_0.1 0.1 | 252698-2 S-02188.001- TP01_1.0 1 | 252698-3 S-02188.001- TP02_0.1 0.1 | 252698-5 S-02188.001- TP02_0.9 0.9 | 252698-6 S-02188.001- TP03_0.1 0.1 |
|--|-------|---|---|---|---|---|
| Depth | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Date Sampled | | soil | soil | soil | soil | soil |
| Type of sample | | | | | | |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 116 | 113 | 121 | 108 | 104 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-7 S-02188.001- TP03_1.0 1 | 252698-8 S-02188.001- TP03_1.2 1.2 | 252698-9 S-02188.001- TP04_0.3 0.3 | 252698-10 S-02188.001- TP04_1.2 1.2 | 252698-11 S-02188.001- TP05_0.1 0.1 |
|--|-------|---|---|---|--|--|
| Depth | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Date Sampled | | soil | soil | soil | soil | soil |
| Type of sample | | | | | | |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 110 | 94 | 125 | 108 | 113 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-12 | 252698-13 | 252698-14 | 252698-18 | 252698-19 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP05_1.0 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_0.1 | S-02188.001-TP06_1.0 |
| Depth | | 1 | 1.4 | 2 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 126 | 123 | 126 | 123 | 122 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-20 | 252698-21 | 252698-22 | 252698-24 | 252698-27 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_0.2 |
| Depth | | 0.1 | 1 | 1.3 | 3 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 115 | 122 | 110 | 133 | 129 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-28 | 252698-29 | 252698-30 | 252698-32 | 252698-33 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP08_1.0 | S-02188.001-TP08_1.2 | S-02188.001-TP09_0.1 | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 |
| Depth | | 1 | 1.2 | 0.1 | 1.5 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 125 | 118 | 122 | 130 | 124 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-34 | 252698-35 | 252698-36 | 252698-37 | 252698-38 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP10_0.9 | S-02188.001-TP10_1.0 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 0.9 | 1 | 0.1 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 125 | 130 | 121 | 117 | 115 |

vTRH(C6-C10)/BTEXN in Soil

| | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-39 | 252698-40 | 252698-41 | 252698-42 | 252698-43 |
| Your Reference | | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP12_1.3 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 |
| Depth | | 0.2 | 1 | 1.3 | 0.3 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 124 | 116 | 132 | 129 | 120 |

vTRH(C6-C10)/BTEXN in Soil

| | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-44 | 252698-47 | 252698-49 | 252698-50 | 252698-51 |
| Your Reference | | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_0.3 | S-02188.001-TP14_1.0 | S-02188.001-TP14_1.2 |
| Depth | | 1.3 | 4 | 0.3 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 124 | 123 | 121 | 120 | 122 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-52 | 252698-53 | 252698-54 | 252698-57 | 252698-59 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP15_1.4 | S-02188.001-BH03_4.0 | S-02188.001-TP16_0.1 |
| Depth | | 0.1 | 1 | 1.4 | 4 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 117 | 121 | 127 | 129 | 126 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-60 | 252698-61 | 252698-65 | 252698-66 | 252698-67 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP16_1.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_0.1 | S-02188.001-TP17_0.5 |
| Depth | | 1 | 1.2 | 5 | 0.1 | 0.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 97 | 125 | 119 | 121 | 125 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-68 | 252698-69 | 252698-70 | 252698-71 | 252698-72 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP17_1.1 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP18_1.0 | S-02188.001-TP19_0.1 |
| Depth | | 1.1 | 0.1 | 0.5 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 110 | 129 | 117 | 120 | 129 |

vTRH(C6-C10)/BTEXN in Soil

| Our Reference | UNITS | 252698-73 | 252698-74 | 252698-75 | 252698-76 | 252698-77 |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Your Reference | | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_0.1 | S-02188.001-TP20_1.0 |
| Depth | | 0.3 | 0.5 | 1.5 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 127 | 120 | 128 | 118 | 122 |

vTRH(C6-C10)/BTEXN in Soil

| | | | | | | |
|--|-------|----------------------|------------------|------------------|------------------|------------------|
| Our Reference | UNITS | 252698-78 | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | | S-02188.001-TP20_1.5 | S-02188.001-QA01 | S-02188.001-QA03 | S-02188.001-QA05 | S-02188.001-QA07 |
| Depth | | 1.5 | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | <25 | <25 | <25 |
| vTPH 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 | <3 | <3 | <3 | <3 | <3 |
| Surrogate aaa-Trifluorotoluene | % | 124 | 117 | 124 | 127 | 124 |

vTRH(C6-C10)/BTEXN in Soil

| | | | | | |
|--|-------|------------------|------------------|------------------|------------------|
| Our Reference | UNITS | 252698-88 | 252698-89 | 252698-90 | 252698-91 |
| Your Reference | | S-02188.001-TB01 | S-02188.001-TB02 | S-02188.001-TS01 | S-02188.001-TS02 |
| Depth | | - | - | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | <25 | <25 | [NA] | [NA] |
| TRH C ₆ - C ₁₀ | mg/kg | <25 | <25 | [NA] | [NA] |
| vTPH C ₆ - C ₁₀ less BTEX (F1) | mg/kg | <25 | <25 | [NA] | [NA] |
| Benzene | mg/kg | <0.2 | <0.2 | 104% | 97% |
| Toluene | mg/kg | <0.5 | <0.5 | 93% | 95% |
| Ethylbenzene | mg/kg | <1 | <1 | 105% | 95% |
| m+p-xylene | mg/kg | <2 | <2 | 103% | 94% |
| o-Xylene | mg/kg | <1 | <1 | 103% | 94% |
| naphthalene | mg/kg | <1 | <1 | [NA] | [NA] |
| Total +ve Xylenes | mg/kg | <3 | <3 | [NA] | [NA] |
| Surrogate aaa-Trifluorotoluene | % | 121 | 123 | 112 | 104 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 |
| 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 | % | 90 | 89 | 91 | 85 | 89 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-7 | 252698-8 | 252698-9 | 252698-10 | 252698-11 |
| Your Reference | | S-02188.001-TP03_1.0 | S-02188.001-TP03_1.2 | S-02188.001-TP04_0.3 | S-02188.001-TP04_1.2 | S-02188.001-TP05_0.1 |
| Depth | | 1 | 1.2 | 0.3 | 1.2 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 |
| 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 | % | 83 | 85 | 82 | 80 | 90 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-12 | 252698-13 | 252698-14 | 252698-18 | 252698-19 |
| Your Reference | UNITS | S-02188.001-TP05_1.0 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_0.1 | S-02188.001-TP06_1.0 |
| Depth | | 1 | 1.4 | 2 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 |
| 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 | % | 87 | 86 | 88 | 86 | 87 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-20 | 252698-21 | 252698-22 | 252698-24 | 252698-27 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_0.2 |
| Depth | | 0.1 | 1 | 1.3 | 3 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 |
| 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 | 87 | 86 | 87 | 84 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-28 | 252698-29 | 252698-30 | 252698-32 | 252698-33 |
| Your Reference | UNITS | S-02188.001-TP08_1.0 | S-02188.001-TP08_1.2 | S-02188.001-TP09_0.1 | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 |
| Depth | | 1 | 1.2 | 0.1 | 1.5 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | % | 97 | 87 | 85 | 94 | 86 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-34 | 252698-35 | 252698-36 | 252698-37 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP10_0.9 | S-02188.001-TP10_1.0 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 0.9 | 1 | 0.1 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | 100 | <50 | <50 |
| Surrogate o-Terphenyl | % | 88 | 88 | 87 | 85 | 86 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-39 | 252698-40 | 252698-41 | 252698-42 | 252698-43 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP12_1.3 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 |
| Depth | | 0.2 | 1 | 1.3 | 0.3 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 | 140 | <100 |
| 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 | 150 | <100 |
| TRH >C ₃₄ - C ₄₀ | mg/kg | <100 | <100 | <100 | 180 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 | <50 | <50 | 320 | <50 |
| Surrogate o-Terphenyl | % | 88 | 82 | 81 | 82 | 82 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-44 | 252698-47 | 252698-49 | 252698-50 | 252698-51 |
| Your Reference | UNITS | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_0.3 | S-02188.001-TP14_1.0 | S-02188.001-TP14_1.2 |
| Depth | | 1.3 | 4 | 0.3 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | % | 93 | 93 | 102 | 91 | 91 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-52 | 252698-53 | 252698-54 | 252698-57 | 252698-59 |
| Your Reference | UNITS | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP15_1.4 | S-02188.001-BH03_4.0 | S-02188.001-TP16_0.1 |
| Depth | | 0.1 | 1 | 1.4 | 4 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | % | 90 | 88 | 108 | 91 | 92 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-60 | 252698-61 | 252698-65 | 252698-66 | 252698-67 |
| Your Reference | UNITS | S-02188.001-TP16_1.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_0.1 | S-02188.001-TP17_0.5 |
| Depth | | 1 | 1.2 | 5 | 0.1 | 0.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | % | 90 | 100 | 90 | 88 | 89 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-68 | 252698-69 | 252698-70 | 252698-71 | 252698-72 |
| Your Reference | UNITS | S-02188.001-TP17_1.1 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP18_1.0 | S-02188.001-TP19_0.1 |
| Depth | | 1.1 | 0.1 | 0.5 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | % | 90 | 91 | 89 | 89 | 88 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-73 | 252698-74 | 252698-75 | 252698-76 | 252698-77 |
| Your Reference | UNITS | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_0.1 | S-02188.001-TP20_1.0 |
| Depth | | 0.3 | 0.5 | 1.5 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| TRH C ₁₀ - C ₁₄ | mg/kg | <50 | <50 | <50 | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | mg/kg | <100 | 260 | <100 | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 310 | 420 | <100 | <100 | <100 |
| 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 | 260 | 550 | <100 | <100 | <100 |
| TRH >C ₃₄ - C ₄₀ | mg/kg | 230 | 270 | <100 | <100 | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | 480 | 820 | <50 | <50 | <50 |
| Surrogate o-Terphenyl | % | 90 | 99 | 91 | 89 | 89 |

| svTRH (C10-C40) in Soil | | | | | | |
|--|-------|----------------------|------------------|------------------|------------------|------------------|
| Our Reference | | 252698-78 | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | UNITS | S-02188.001-TP20_1.5 | S-02188.001-QA01 | S-02188.001-QA03 | S-02188.001-QA05 | S-02188.001-QA07 |
| Depth | | 1.5 | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 |
| 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 | % | 93 | 89 | 86 | 87 | 99 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 |
| 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 | 0.2 | 0.2 | <0.1 | <0.1 | 1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 |
| Fluoranthene | mg/kg | 0.4 | 0.6 | <0.1 | <0.1 | 3.2 |
| Pyrene | mg/kg | 0.4 | 0.6 | 0.1 | <0.1 | 3.0 |
| Benzo(a)anthracene | mg/kg | 0.2 | 0.2 | <0.1 | <0.1 | 1.2 |
| Chrysene | mg/kg | 0.1 | 0.2 | <0.1 | <0.1 | 1.0 |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | 0.4 | <0.2 | <0.2 | 2.4 |
| Benzo(a)pyrene | mg/kg | 0.2 | 0.2 | 0.06 | <0.05 | 1.5 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | 0.2 | <0.1 | <0.1 | 1.0 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 |
| Benzo(g,h,i)perylene | mg/kg | 0.2 | 0.2 | <0.1 | <0.1 | 1.3 |
| Total +ve PAH's | mg/kg | 1.9 | 2.7 | 0.2 | <0.05 | 16 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 |
| Surrogate p-Terphenyl-d14 | % | 98 | 101 | 99 | 98 | 104 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-7 | 252698-8 | 252698-9 | 252698-10 | 252698-11 |
| Your Reference | UNITS | S-02188.001-TP03_1.0 | S-02188.001-TP03_1.2 | S-02188.001-TP04_0.3 | S-02188.001-TP04_1.2 | S-02188.001-TP05_0.1 |
| Depth | | 1 | 1.2 | 0.3 | 1.2 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.2 | <0.1 | 0.2 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.2 | <0.1 | 0.2 | <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 | 0.09 | <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 | 0.66 | <0.05 | 0.3 | <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-d14 | % | 100 | 99 | 98 | 98 | 94 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-12 | 252698-13 | 252698-14 | 252698-18 | 252698-19 |
| Your Reference | UNITS | S-02188.001-TP05_1.0 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_0.1 | S-02188.001-TP06_1.0 |
| Depth | | 1 | 1.4 | 2 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.3 | <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 | 0.3 | <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-d14 | % | 94 | 100 | 93 | 95 | 96 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-20 | 252698-21 | 252698-22 | 252698-24 | 252698-27 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_0.2 |
| Depth | | 0.1 | 1 | 1.3 | 3 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.5 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | 0.4 | <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 | 0.2 | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | <0.2 | <0.2 | 0.3 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | 0.1 | <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 | 0.1 | <0.05 | 2.1 | <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-d14 | % | 97 | 97 | 101 | 99 | 96 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-28 | 252698-29 | 252698-30 | 252698-32 | 252698-33 |
| Your Reference | UNITS | S-02188.001-TP08_1.0 | S-02188.001-TP08_1.2 | S-02188.001-TP09_0.1 | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 |
| Depth | | 1 | 1.2 | 0.1 | 1.5 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.6 | 0.2 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 1.6 | 0.4 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 1.5 | 0.4 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.6 | 0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.6 | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | 1 | 0.3 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | 0.71 | 0.1 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.4 | <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 | 0.5 | 0.1 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | 7.9 | 1.7 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | 1 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 99 | 105 | 100 | 101 | 99 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-34 | 252698-35 | 252698-36 | 252698-37 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP10_0.9 | S-02188.001-TP10_1.0 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 0.9 | 1 | 0.1 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.2 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | <0.1 | 0.2 | <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 | 0.1 | <0.05 | 0.07 |
| 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 | 0.83 | <0.05 | 0.07 |
| 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-d14 | % | 100 | 102 | 101 | 103 | 102 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-39 | 252698-40 | 252698-41 | 252698-42 | 252698-43 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP12_1.3 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 |
| Depth | | 0.2 | 1 | 1.3 | 0.3 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.4 | <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 | 0.4 | 0.1 | <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-d14 | % | 99 | 99 | 100 | 102 | 102 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-44 | 252698-47 | 252698-49 | 252698-50 | 252698-51 |
| Your Reference | UNITS | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_0.3 | S-02188.001-TP14_1.0 | S-02188.001-TP14_1.2 |
| Depth | | 1.3 | 4 | 0.3 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 09/10/2020 |
| 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 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.2 | <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 | 0.5 | <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-d14 | % | 104 | 99 | 99 | 98 | 99 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-52 | 252698-53 | 252698-54 | 252698-57 | 252698-59 |
| Your Reference | UNITS | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP15_1.4 | S-02188.001-BH03_4.0 | S-02188.001-TP16_0.1 |
| Depth | | 0.1 | 1 | 1.4 | 4 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.2 | <0.1 |
| Anthracene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | 0.2 | 0.3 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | 0.2 | 0.4 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 |
| Chrysene | mg/kg | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | <0.2 | <0.2 | <0.2 | 0.3 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | <0.05 | 0.05 | 0.2 | <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 | 0.3 | <0.05 | 0.4 | 1.8 | <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-d14 | % | 101 | 100 | 108 | 100 | 99 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-60 | 252698-61 | 252698-65 | 252698-66 | 252698-67 |
| Your Reference | UNITS | S-02188.001-TP16_1.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_0.1 | S-02188.001-TP17_0.5 |
| Depth | | 1 | 1.2 | 5 | 0.1 | 0.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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-d14 | % | 99 | 101 | 101 | 103 | 101 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-68 | 252698-69 | 252698-70 | 252698-71 | 252698-72 |
| Your Reference | UNITS | S-02188.001-TP17_1.1 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP18_1.0 | S-02188.001-TP19_0.1 |
| Depth | | 1.1 | 0.1 | 0.5 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.3 | 0.2 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | 0.3 | 0.2 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | 0.2 | <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 | 0.1 | 0.1 | 0.08 | <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 | 0.1 | 1.4 | 0.4 | <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-d14 | % | 100 | 100 | 101 | 98 | 100 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-73 | 252698-74 | 252698-75 | 252698-76 | 252698-77 |
| Your Reference | UNITS | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_0.1 | S-02188.001-TP20_1.0 |
| Depth | | 0.3 | 0.5 | 1.5 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Naphthalene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | <0.1 | 0.5 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | <0.1 | 0.6 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | <0.1 | 4.3 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | <0.1 | 0.9 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | <0.1 | 6.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | 4.5 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | <0.1 | 2.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | <0.1 | 1.6 | <0.1 | <0.1 | <0.1 |
| Benzo(b,j+k)fluoranthene | mg/kg | <0.2 | 2.6 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | mg/kg | <0.05 | 1.8 | <0.05 | <0.05 | <0.05 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | <0.1 | 0.7 | <0.1 | <0.1 | <0.1 |
| Dibenzo(a,h)anthracene | mg/kg | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 |
| Benzo(g,h,i)perylene | mg/kg | <0.1 | 0.8 | <0.1 | <0.1 | <0.1 |
| Total +ve PAH's | mg/kg | <0.05 | 27 | <0.05 | <0.05 | <0.05 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5 | 2.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | <0.5 | 2.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | <0.5 | 2.5 | <0.5 | <0.5 | <0.5 |
| Surrogate p-Terphenyl-d14 | % | 99 | 99 | 101 | 105 | 104 |

| PAHs in Soil | | | | | | |
|--------------------------------|-------|----------------------|------------------|------------------|------------------|------------------|
| Our Reference | | 252698-78 | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | UNITS | S-02188.001-TP20_1.5 | S-02188.001-QA01 | S-02188.001-QA03 | S-02188.001-QA05 | S-02188.001-QA07 |
| Depth | | 1.5 | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 | 0.3 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | <0.1 | 0.3 | <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 | 0.1 | <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 | 0.99 | <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-d14 | % | 100 | 100 | 105 | 103 | 105 |

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-8 | 252698-10 | 252698-13 | 252698-14 | 252698-19 |
| Your Reference | | S-02188.001-TP03_1.2 | S-02188.001-TP04_1.2 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_1.0 |
| Depth | | 1.2 | 1.2 | 1.4 | 2 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 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 DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 101 | 100 | 102 | 105 | 102 |

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-22 | 252698-24 | 252698-29 | 252698-35 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_1.2 | S-02188.001-TP10_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 1.3 | 3 | 1.2 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 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 DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 102 | 99 | 102 | 102 | 101 |

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-41 | 252698-44 | 252698-47 | 252698-51 | 252698-54 |
| Your Reference | | S-02188.001-TP12_1.3 | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_1.2 | S-02188.001-TP15_1.4 |
| Depth | | 1.3 | 1.3 | 4 | 1.2 | 1.4 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 09/10/2020 | 09/10/2020 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 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 DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 100 | 103 | 99 | 98 | 109 |

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-57 | 252698-61 | 252698-65 | 252698-68 | 252698-71 |
| Your Reference | | S-02188.001-BH03_4.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_1.1 | S-02188.001-TP18_1.0 |
| Depth | | 4 | 1.2 | 5 | 1.1 | 1 |
| Date Sampled | | 2/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 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 DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 91 | 96 | 94 | 97 | 94 |

| Organochlorine Pesticides in soil | | | | | | |
|-----------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-72 | 252698-73 | 252698-74 | 252698-75 | 252698-78 |
| Your Reference | | S-02188.001-TP19_0.1 | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_1.5 |
| Depth | | 0.1 | 0.3 | 0.5 | 1.5 | 1.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 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 DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 94 | 91 | 88 | 95 | 92 |

| Organochlorine Pesticides in soil | | | | | |
|-----------------------------------|-------|------------------|------------------|------------------|------------------|
| Our Reference | UNITS | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | | S-02188.001-QA01 | S-02188.001-QA03 | S-02188.001-QA05 | S-02188.001-QA07 |
| Depth | | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| HCB | 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 DDT+DDD+DDE | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 92 | 93 | 92 | 93 |

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-8 | 252698-10 | 252698-13 | 252698-14 | 252698-19 |
| Your Reference | | S-02188.001-TP03_1.2 | S-02188.001-TP04_1.2 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_1.0 |
| Depth | | 1.2 | 1.2 | 1.4 | 2 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Dichlorvos | 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 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyriphos-methyl | 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 |
| 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 |
| Chlorpyriphos | 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 |
| Bromophos-ethyl | 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 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 101 | 100 | 102 | 105 | 102 |

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-22 | 252698-24 | 252698-29 | 252698-35 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_1.2 | S-02188.001-TP10_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 1.3 | 3 | 1.2 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Dichlorvos | 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 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyriphos-methyl | 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 |
| 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 |
| Chlorpyriphos | 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 |
| Bromophos-ethyl | 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 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 102 | 99 | 102 | 102 | 101 |

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-41 | 252698-44 | 252698-47 | 252698-51 | 252698-54 |
| Your Reference | UNITS | S-02188.001-TP12_1.3 | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_1.2 | S-02188.001-TP15_1.4 |
| Depth | | 1.3 | 1.3 | 4 | 1.2 | 1.4 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 09/10/2020 | 09/10/2020 |
| Dichlorvos | 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 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyriphos-methyl | 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 |
| 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 |
| Chlorpyriphos | 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 |
| Bromophos-ethyl | 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 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 100 | 103 | 99 | 98 | 109 |

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-57 | 252698-61 | 252698-65 | 252698-68 | 252698-71 |
| Your Reference | UNITS | S-02188.001-BH03_4.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_1.1 | S-02188.001-TP18_1.0 |
| Depth | | 4 | 1.2 | 5 | 1.1 | 1 |
| Date Sampled | | 2/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Dichlorvos | 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 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyriphos-methyl | 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 |
| 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 |
| Chlorpyriphos | 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 |
| Bromophos-ethyl | 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 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 91 | 96 | 94 | 97 | 94 |

| Organophosphorus Pesticides in Soil | | | | | | |
|-------------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-72 | 252698-73 | 252698-74 | 252698-75 | 252698-78 |
| Your Reference | UNITS | S-02188.001-TP19_0.1 | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_1.5 |
| Depth | | 0.1 | 0.3 | 0.5 | 1.5 | 1.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Dichlorvos | 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 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyriphos-methyl | 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 |
| 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 |
| Chlorpyriphos | 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 |
| Bromophos-ethyl | 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 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 94 | 91 | 88 | 95 | 92 |

| Organophosphorus Pesticides in Soil | | | | | |
|-------------------------------------|-------|------------------|------------------|------------------|------------------|
| Our Reference | | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | UNITS | S-02188.001-QA01 | S-02188.001-QA03 | S-02188.001-QA05 | S-02188.001-QA07 |
| Depth | | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Dichlorvos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Dimethoate | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Diazinon | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Chlorpyriphos-methyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Ronnel | 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 |
| Chlorpyriphos | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Parathion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Bromophos-ethyl | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethion | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Azinphos-methyl (Guthion) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 |
| Surrogate TCMX | % | 92 | 93 | 92 | 93 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-8 | 252698-10 | 252698-13 | 252698-14 | 252698-19 |
| Your Reference | UNITS | S-02188.001-TP03_1.2 | S-02188.001-TP04_1.2 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_1.0 |
| Depth | | 1.2 | 1.2 | 1.4 | 2 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 TCMX | % | 101 | 100 | 102 | 105 | 102 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-22 | 252698-24 | 252698-29 | 252698-35 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_1.2 | S-02188.001-TP10_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 1.3 | 3 | 1.2 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 TCMX | % | 102 | 99 | 102 | 102 | 101 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-41 | 252698-44 | 252698-47 | 252698-51 | 252698-54 |
| Your Reference | UNITS | S-02188.001-TP12_1.3 | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_1.2 | S-02188.001-TP15_1.4 |
| Depth | | 1.3 | 1.3 | 4 | 1.2 | 1.4 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 09/10/2020 | 09/10/2020 |
| 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 TCMX | % | 100 | 103 | 99 | 98 | 109 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-57 | 252698-61 | 252698-65 | 252698-68 | 252698-71 |
| Your Reference | UNITS | S-02188.001-BH03_4.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_1.1 | S-02188.001-TP18_1.0 |
| Depth | | 4 | 1.2 | 5 | 1.1 | 1 |
| Date Sampled | | 2/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 TCMX | % | 91 | 96 | 94 | 97 | 94 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-72 | 252698-73 | 252698-74 | 252698-75 | 252698-78 |
| Your Reference | UNITS | S-02188.001-TP19_0.1 | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_1.5 |
| Depth | | 0.1 | 0.3 | 0.5 | 1.5 | 1.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| 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 TCMX | % | 94 | 91 | 88 | 95 | 92 |

| PCBs in Soil | | | | | | |
|----------------------------|-------|------------------|------------------|------------------|------------------|------|
| Our Reference | | 252698-80 | 252698-81 | 252698-82 | 252698-83 | |
| Your Reference | UNITS | S-02188.001-QA01 | S-02188.001-QA03 | S-02188.001-QA05 | S-02188.001-QA07 | |
| Depth | | - | - | - | - | |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | |
| Type of sample | | soil | soil | soil | soil | |
| Date extracted | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | |
| 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 TCMX | % | 92 | 93 | 92 | 93 | |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 13 | <4 | <4 | 14 | 5 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 9 | 7 | 30 | 7 | 13 |
| Copper | mg/kg | 19 | 13 | 26 | 9 | 22 |
| Lead | mg/kg | 72 | 39 | 9 | 13 | 55 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 |
| Nickel | mg/kg | 12 | 2 | 43 | 10 | 10 |
| Zinc | mg/kg | 99 | 54 | 40 | 26 | 73 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-7 | 252698-8 | 252698-9 | 252698-10 | 252698-11 |
| Your Reference | | S-02188.001-TP03_1.0 | S-02188.001-TP03_1.2 | S-02188.001-TP04_0.3 | S-02188.001-TP04_1.2 | S-02188.001-TP05_0.1 |
| Depth | | 1 | 1.2 | 0.3 | 1.2 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | <4 | 5 | <4 | 5 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 6 | 7 | 5 | 4 | 10 |
| Copper | mg/kg | 5 | 2 | 9 | 1 | 4 |
| Lead | mg/kg | 41 | 11 | 17 | 3 | 11 |
| Mercury | mg/kg | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 1 | 3 | 5 | <1 | 5 |
| Zinc | mg/kg | 11 | 5 | 41 | <1 | 28 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-12 | 252698-13 | 252698-14 | 252698-18 | 252698-19 |
| Your Reference | UNITS | S-02188.001-TP05_1.0 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_0.1 | S-02188.001-TP06_1.0 |
| Depth | | 1 | 1.4 | 2 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | 11 | <4 | <4 | 5 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 11 | 7 | 6 | 7 | 11 |
| Copper | mg/kg | 6 | 2 | 2 | <1 | 5 |
| Lead | mg/kg | 29 | 7 | 5 | 8 | 13 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 4 | 3 | <1 | 1 | 5 |
| Zinc | mg/kg | 33 | 3 | 2 | 2 | 28 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-20 | 252698-21 | 252698-22 | 252698-24 | 252698-27 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_0.2 |
| Depth | | 0.1 | 1 | 1.3 | 3 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | <4 | 6 | <4 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 21 | 10 | 12 | 3 | 7 |
| Copper | mg/kg | 8 | 10 | 15 | 2 | <1 |
| Lead | mg/kg | 15 | 6 | 76 | 3 | 6 |
| Mercury | mg/kg | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 |
| Nickel | mg/kg | 8 | 11 | 5 | <1 | <1 |
| Zinc | mg/kg | 20 | 15 | 51 | 1 | 3 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-28 | 252698-29 | 252698-30 | 252698-32 | 252698-33 |
| Your Reference | UNITS | S-02188.001-TP08_1.0 | S-02188.001-TP08_1.2 | S-02188.001-TP09_0.1 | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 |
| Depth | | 1 | 1.2 | 0.1 | 1.5 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 4 | <4 | 4 | 5 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 12 | 6 | 10 | 10 | 5 |
| Copper | mg/kg | 8 | 2 | 8 | 6 | 2 |
| Lead | mg/kg | 22 | 8 | 15 | 22 | 9 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 5 | 4 | 8 | 5 | 2 |
| Zinc | mg/kg | 26 | 7 | 26 | 27 | 12 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-34 | 252698-35 | 252698-36 | 252698-37 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP10_0.9 | S-02188.001-TP10_1.0 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 0.9 | 1 | 0.1 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | 14 | 4 | <4 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 5 | 7 | 13 | 5 | 9 |
| Copper | mg/kg | <1 | 5 | 22 | <1 | 5 |
| Lead | mg/kg | 5 | 13 | 14 | 5 | 16 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | <1 | 4 | 17 | <1 | 7 |
| Zinc | mg/kg | 26 | 10 | 55 | 7 | 19 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-39 | 252698-40 | 252698-41 | 252698-42 | 252698-43 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP12_1.3 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 |
| Depth | | 0.2 | 1 | 1.3 | 0.3 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | <4 | <4 | <4 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 5 | 9 | 4 | 9 | 5 |
| Copper | mg/kg | 3 | 1 | 2 | 11 | 1 |
| Lead | mg/kg | 6 | 9 | 5 | 23 | 7 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 5 | 2 | 2 | 12 | 2 |
| Zinc | mg/kg | 6 | 3 | 9 | 59 | 4 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-44 | 252698-47 | 252698-49 | 252698-50 | 252698-51 |
| Your Reference | UNITS | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_0.3 | S-02188.001-TP14_1.0 | S-02188.001-TP14_1.2 |
| Depth | | 1.3 | 4 | 0.3 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 35 | <4 | <4 | <4 | 5 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 12 | 3 | 12 | 4 | 7 |
| Copper | mg/kg | 66 | 6 | 5 | 1 | 5 |
| Lead | mg/kg | 240 | 4 | 22 | 6 | 15 |
| Mercury | mg/kg | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 11 | <1 | 4 | 2 | 4 |
| Zinc | mg/kg | 130 | 4 | 68 | 8 | 35 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-52 | 252698-53 | 252698-54 | 252698-57 | 252698-59 |
| Your Reference | UNITS | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP15_1.4 | S-02188.001-BH03_4.0 | S-02188.001-TP16_0.1 |
| Depth | | 0.1 | 1 | 1.4 | 4 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | <4 | 6 | <4 | 5 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 9 | 8 | 9 | 5 | 15 |
| Copper | mg/kg | 15 | 12 | 7 | 14 | 10 |
| Lead | mg/kg | 25 | 24 | 16 | 8 | 11 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 10 | 8 | 6 | <1 | 13 |
| Zinc | mg/kg | 69 | 59 | 110 | 7 | 60 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-60 | 252698-61 | 252698-65 | 252698-66 | 252698-67 |
| Your Reference | UNITS | S-02188.001-TP16_1.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_0.1 | S-02188.001-TP17_0.5 |
| Depth | | 1 | 1.2 | 5 | 0.1 | 0.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 6 | <4 | <4 | <4 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 11 | 6 | 6 | 7 | 8 |
| Copper | mg/kg | 8 | 6 | 10 | 9 | <1 |
| Lead | mg/kg | 14 | 5 | 7 | 6 | 7 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 3 | <1 | <1 | 5 | 1 |
| Zinc | mg/kg | 23 | 2 | 2 | 13 | 2 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-68 | 252698-69 | 252698-70 | 252698-71 | 252698-72 |
| Your Reference | UNITS | S-02188.001-TP17_1.1 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP18_1.0 | S-02188.001-TP19_0.1 |
| Depth | | 1.1 | 0.1 | 0.5 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 4 | <4 | <4 | 5 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 7 | 9 | 9 | 11 | 23 |
| Copper | mg/kg | 1 | 9 | 13 | 3 | 26 |
| Lead | mg/kg | 7 | 15 | 17 | 12 | 5 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 3 | 8 | 9 | 3 | 41 |
| Zinc | mg/kg | 7 | 23 | 26 | 9 | 35 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-73 | 252698-74 | 252698-75 | 252698-76 | 252698-77 |
| Your Reference | UNITS | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_0.1 | S-02188.001-TP20_1.0 |
| Depth | | 0.3 | 0.5 | 1.5 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | <4 | 4 | <4 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | 18 | 17 | 10 | 17 | 16 |
| Copper | mg/kg | 25 | 27 | 3 | 25 | 2 |
| Lead | mg/kg | 5 | 48 | 39 | 6 | 33 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | 38 | 27 | <1 | 34 | 1 |
| Zinc | mg/kg | 34 | 94 | 37 | 34 | 46 |

| Acid Extractable metals in soil | | | | | | |
|---------------------------------|-------|--------------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-78 | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | UNITS | S-02188.001- TP20_1.5 | S-02188.001- QA01 | S-02188.001- QA03 | S-02188.001- QA05 | S-02188.001- QA07 |
| Depth | | 1.5 | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | <4 | 25 | <4 | <4 | <4 |
| Cadmium | mg/kg | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Chromium | mg/kg | <1 | 9 | 6 | 8 | 8 |
| Copper | mg/kg | <1 | 19 | 1 | <1 | 2 |
| Lead | mg/kg | 1 | 78 | 5 | 5 | 9 |
| Mercury | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | mg/kg | <1 | 13 | <1 | <1 | 3 |
| Zinc | mg/kg | 2 | 86 | <1 | 2 | 10 |

| Acid Extractable metals in soil | | |
|---------------------------------|-------|---|
| Our Reference | | 252698-95 |
| Your Reference | UNITS | S-02188.001- TP08_1.2 - [TRIPPLICATE] |
| Depth | | 1.2 |
| Date Sampled | | 1/10/2020 |
| Type of sample | | soil |
| Date prepared | - | 08/10/2020 |
| Date analysed | - | 08/10/2020 |
| Arsenic | mg/kg | 5 |
| Cadmium | mg/kg | <0.4 |
| Chromium | mg/kg | 7 |
| Copper | mg/kg | 4 |
| Lead | mg/kg | 27 |
| Mercury | mg/kg | <0.1 |
| Nickel | mg/kg | 5 |
| Zinc | mg/kg | 16 |

Misc Inorg - Soil

| | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 7.9 | 8.3 | 9.1 | 8.3 | 8.4 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 57 | 110 | 130 | 140 | 120 |

Misc Inorg - Soil

| | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-7 | 252698-8 | 252698-9 | 252698-10 | 252698-11 |
| Your Reference | | S-02188.001-TP03_1.0 | S-02188.001-TP03_1.2 | S-02188.001-TP04_0.3 | S-02188.001-TP04_1.2 | S-02188.001-TP05_0.1 |
| Depth | | 1 | 1.2 | 0.3 | 1.2 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 6.6 | 6.8 | 9.0 | 5.7 | 5.7 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 49 | 65 | 97 | 24 | 40 |

Misc Inorg - Soil

| | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | UNITS | 252698-12 | 252698-13 | 252698-14 | 252698-18 | 252698-19 |
| Your Reference | | S-02188.001-TP05_1.0 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_0.1 | S-02188.001-TP06_1.0 |
| Depth | | 1 | 1.4 | 2 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 6.1 | 6.4 | 6.0 | 7.3 | 5.1 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 37 | 77 | 31 | 18 | 20 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-20 | 252698-21 | 252698-22 | 252698-24 | 252698-27 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_0.2 |
| Depth | | 0.1 | 1 | 1.3 | 3 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 7.8 | 7.8 | 6.4 | 8.0 | 6.8 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 200 | 150 | 67 | 54 | 29 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-28 | 252698-29 | 252698-30 | 252698-32 | 252698-33 |
| Your Reference | UNITS | S-02188.001-TP08_1.0 | S-02188.001-TP08_1.2 | S-02188.001-TP09_0.1 | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 |
| Depth | | 1 | 1.2 | 0.1 | 1.5 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 6.4 | 6.0 | 8.4 | 7.9 | 7.9 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 32 | 79 | 170 | 270 | 97 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-34 | 252698-35 | 252698-36 | 252698-37 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP10_0.9 | S-02188.001-TP10_1.0 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 0.9 | 1 | 0.1 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 6.1 | 6.1 | 9.3 | 7.0 | 5.8 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 29 | 72 | 120 | 66 | 65 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-39 | 252698-40 | 252698-41 | 252698-42 | 252698-43 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP12_1.3 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 |
| Depth | | 0.2 | 1 | 1.3 | 0.3 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 7.5 | 7.6 | 6.2 | 8.8 | 6.2 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 96 | 99 | 48 | 130 | 87 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-44 | 252698-47 | 252698-49 | 252698-50 | 252698-51 |
| Your Reference | UNITS | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_0.3 | S-02188.001-TP14_1.0 | S-02188.001-TP14_1.2 |
| Depth | | 1.3 | 4 | 0.3 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 6.1 | 7.1 | 9.9 | 7.0 | 6.1 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 85 | 41 | 150 | 100 | 69 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-52 | 252698-53 | 252698-54 | 252698-57 | 252698-59 |
| Your Reference | UNITS | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP15_1.4 | S-02188.001-BH03_4.0 | S-02188.001-TP16_0.1 |
| Depth | | 0.1 | 1 | 1.4 | 4 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 9.7 | 8.5 | 5.8 | 5.5 | 9.5 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 140 | 140 | 98 | 65 | 500 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-60 | 252698-61 | 252698-65 | 252698-66 | 252698-67 |
| Your Reference | UNITS | S-02188.001-TP16_1.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_0.1 | S-02188.001-TP17_0.5 |
| Depth | | 1 | 1.2 | 5 | 0.1 | 0.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 5.0 | 4.8 | 6.5 | 8.0 | 5.7 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 41 | 33 | 41 | 250 | 28 |

| Misc Inorg - Soil | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-68 | 252698-69 | 252698-70 | 252698-71 | 252698-76 |
| Your Reference | UNITS | S-02188.001-TP17_1.1 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP18_1.0 | S-02188.001-TP20_0.1 |
| Depth | | 1.1 | 0.1 | 0.5 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 5.0 | 7.7 | 7.8 | 4.7 | 9.0 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 170 | 320 | 320 | 170 | 200 |

| Misc Inorg - Soil | | | |
|--|----------|----------------------|----------------------|
| Our Reference | | 252698-77 | 252698-78 |
| Your Reference | UNITS | S-02188.001-TP20_1.0 | S-02188.001-TP20_1.5 |
| Depth | | 1 | 1.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 |
| pH 1:5 soil:water | pH Units | 6.0 | 6.4 |
| Electrical Conductivity 1:5 soil:water | µS/cm | 96 | 41 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | UNITS | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 8.8 | 15 | 8.3 | 14 | 14 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-7 | 252698-8 | 252698-9 | 252698-10 | 252698-11 |
| Your Reference | UNITS | S-02188.001-TP03_1.0 | S-02188.001-TP03_1.2 | S-02188.001-TP04_0.3 | S-02188.001-TP04_1.2 | S-02188.001-TP05_0.1 |
| Depth | | 1 | 1.2 | 0.3 | 1.2 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 15 | 17 | 11 | 14 | 9.3 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-12 | 252698-13 | 252698-14 | 252698-18 | 252698-19 |
| Your Reference | UNITS | S-02188.001-TP05_1.0 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-TP06_0.1 | S-02188.001-TP06_1.0 |
| Depth | | 1 | 1.4 | 2 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 16 | 21 | 16 | 13 | 16 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-20 | 252698-21 | 252698-22 | 252698-24 | 252698-27 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_3.0 | S-02188.001-TP08_0.2 |
| Depth | | 0.1 | 1 | 1.3 | 3 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 13 | 9.1 | 24 | 14 | 8.9 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-28 | 252698-29 | 252698-30 | 252698-32 | 252698-33 |
| Your Reference | UNITS | S-02188.001-TP08_1.0 | S-02188.001-TP08_1.2 | S-02188.001-TP09_0.1 | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 |
| Depth | | 1 | 1.2 | 0.1 | 1.5 | 0.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 14 | 18 | 12 | 19 | 7.5 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-34 | 252698-35 | 252698-36 | 252698-37 | 252698-38 |
| Your Reference | UNITS | S-02188.001-TP10_0.9 | S-02188.001-TP10_1.0 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 | S-02188.001-TP11_1.2 |
| Depth | | 0.9 | 1 | 0.1 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 8.9 | 26 | 8.6 | 8.5 | 23 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-39 | 252698-40 | 252698-41 | 252698-42 | 252698-43 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP12_1.3 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 |
| Depth | | 0.2 | 1 | 1.3 | 0.3 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 8.9 | 10 | 18 | 5.9 | 12 |

| Moisture | | | | | | |
|----------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-44 | 252698-47 | 252698-49 | 252698-50 | 252698-51 |
| Your Reference | UNITS | S-02188.001-TP13_1.3 | S-02188.001-BH02_4.0 | S-02188.001-TP14_0.3 | S-02188.001-TP14_1.0 | S-02188.001-TP14_1.2 |
| Depth | | 1.3 | 4 | 0.3 | 1 | 1.2 |
| Date Sampled | | 1/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 26 | 13 | 11 | 12 | 17 |

| Moisture | | | | | | |
|----------------|-------|--|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | | 252698-52 | 252698-53 | 252698-54 | 252698-57 |
| Your Reference | UNITS | | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP15_1.4 | S-02188.001-BH03_4.0 |
| Depth | | | 0.1 | 1 | 1.4 | 4 |
| Date Sampled | | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 |
| Type of sample | | | soil | soil | soil | soil |
| Date prepared | - | | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | | 5.9 | 9.1 | 27 | 16 |
| | | | | | | 8.8 |

| Moisture | | | | | | |
|----------------|-------|--|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | | 252698-60 | 252698-61 | 252698-65 | 252698-66 |
| Your Reference | UNITS | | S-02188.001-TP16_1.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_5.0 | S-02188.001-TP17_0.1 |
| Depth | | | 1 | 1.2 | 5 | 0.1 |
| Date Sampled | | | 1/10/2020 | 1/10/2020 | 2/10/2020 | 1/10/2020 |
| Type of sample | | | soil | soil | soil | soil |
| Date prepared | - | | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | | 19 | 16 | 16 | 7.5 |
| | | | | | | 9.7 |

| Moisture | | | | | | |
|----------------|-------|--|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | | 252698-68 | 252698-69 | 252698-70 | 252698-71 |
| Your Reference | UNITS | | S-02188.001-TP17_1.1 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP18_1.0 |
| Depth | | | 1.1 | 0.1 | 0.5 | 1 |
| Date Sampled | | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | | soil | soil | soil | soil |
| Date prepared | - | | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | | 20 | 6.4 | 8.1 | 17 |
| | | | | | | 5.0 |

| Moisture | | | | | | |
|----------------|-------|--|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | | 252698-73 | 252698-74 | 252698-75 | 252698-76 |
| Your Reference | UNITS | | S-02188.001-TP19_0.3 | S-02188.001-TP19_0.5 | S-02188.001-TP19_1.5 | S-02188.001-TP20_0.1 |
| Depth | | | 0.3 | 0.5 | 1.5 | 0.1 |
| Date Sampled | | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | | soil | soil | soil | soil |
| Date prepared | - | | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | | 7.0 | 8.3 | 15 | 4.3 |
| | | | | | | 19 |

| Moisture | | | | | | |
|----------------|-------|--------------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-78 | 252698-80 | 252698-81 | 252698-82 | 252698-83 |
| Your Reference | UNITS | S-02188.001- TP20_1.5 | S-02188.001- QA01 | S-02188.001- QA03 | S-02188.001- QA05 | S-02188.001- QA07 |
| Depth | | 1.5 | - | - | - | - |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Moisture | % | 13 | 7.3 | 17 | 9.5 | 20 |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-8 | 252698-10 | 252698-13 | 252698-14 | 252698-15 |
| Your Reference | UNITS | S-02188.001-TP03_1.2 | S-02188.001-TP04_1.2 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-BH01_3.0 |
| Depth | | 1.2 | 1.2 | 1.4 | 2 | 3 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 6.0 | 4.9 | 6.0 | 4.8 | 5.3 |
| pH _{FOX} (field peroxide test)* | pH Units | 4.9 | 3.1 | 3.8 | 4.4 | 3.4 |
| Reaction Rate* | - | Low reaction | Medium reaction | Extreme reaction | High reaction | High reaction |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-16 | 252698-17 | 252698-19 | 252698-22 | 252698-23 |
| Your Reference | UNITS | S-02188.001-BH01_4.0 | S-02188.001-BH01_5.0 | S-02188.001-TP06_1.0 | S-02188.001-TP07_1.3 | S-02188.001-BH05_2.0 |
| Depth | | 4 | 5 | 1 | 1.3 | 2 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 5.4 | 5.7 | 4.7 | 6.0 | 6.1 |
| pH _{FOX} (field peroxide test)* | pH Units | 3.7 | 4.7 | 3.5 | 3.4 | 4.5 |
| Reaction Rate* | - | Medium reaction | Low reaction | Volcanic reaction | Extreme reaction | High reaction |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-24 | 252698-25 | 252698-26 | 252698-29 | 252698-35 |
| Your Reference | UNITS | S-02188.001-BH05_3.0 | S-02188.001-BH05_4.0 | S-02188.001-BH05_5.0 | S-02188.001-TP08_1.2 | S-02188.001-TP10_1.0 |
| Depth | | 3 | 4 | 5 | 1.2 | 1 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 6.6 | 6.0 | 6.3 | 6.2 | 6.3 |
| pH _{FOX} (field peroxide test)* | pH Units | 5.5 | 5.1 | 5.7 | 2.9 | 2.6 |
| Reaction Rate* | - | Medium reaction | Medium reaction | Low reaction | Extreme reaction | Volcanic reaction |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-38 | 252698-41 | 252698-44 | 252698-45 | 252698-46 |
| Your Reference | UNITS | S-02188.001-TP11_1.2 | S-02188.001-TP12_1.3 | S-02188.001-TP13_1.3 | S-02188.001-BH02_2.0 | S-02188.001-BH02_3.0 |
| Depth | | 1.2 | 1.3 | 1.3 | 2 | 3 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 6.0 | 5.8 | 6.0 | 6.4 | 6.7 |
| pH _{FOX} (field peroxide test)* | pH Units | 3.3 | 3.5 | 3.9 | 3.7 | 5.5 |
| Reaction Rate* | - | Extreme reaction | Extreme reaction | Volcanic reaction | Low reaction | Medium reaction |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-47 | 252698-48 | 252698-51 | 252698-54 | 252698-55 |
| Your Reference | UNITS | S-02188.001-BH02_4.0 | S-02188.001-BH02_5.0 | S-02188.001-TP14_1.2 | S-02188.001-TP15_1.4 | S-02188.001-BH03_2.0 |
| Depth | | 4 | 5 | 1.2 | 1.4 | 2 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 6.1 | 6.2 | 6.3 | 6.0 | 6.2 |
| pH _{FOX} (field peroxide test)* | pH Units | 5.4 | 5.3 | 4.0 | 2.8 | 2.6 |
| Reaction Rate* | - | Low reaction | Medium reaction | Extreme reaction | Volcanic reaction | High reaction |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-56 | 252698-57 | 252698-58 | 252698-61 | 252698-62 |
| Your Reference | UNITS | S-02188.001-BH03_3.0 | S-02188.001-BH03_4.0 | S-02188.001-BH03_5.0 | S-02188.001-TP16_1.2 | S-02188.001-BH04_2.0 |
| Depth | | 3 | 4 | 5 | 1.2 | 2 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 2/10/2020 | 1/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 6.0 | 5.3 | 5.5 | 4.5 | 5.1 |
| pH _{FOX} (field peroxide test)* | pH Units | 3.8 | 4.2 | 4.1 | 4.0 | 2.9 |
| Reaction Rate* | - | Medium reaction | High reaction | Medium reaction | Extreme reaction | High reaction |

| sPOCAS field test | | | | | | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-63 | 252698-64 | 252698-65 | 252698-68 | 252698-71 |
| Your Reference | UNITS | S-02188.001-BH04_3.0 | S-02188.001-BH04_4.0 | S-02188.001-BH04_5.0 | S-02188.001-TP17_1.1 | S-02188.001-TP18_1.0 |
| Depth | | 3 | 4 | 5 | 1.1 | 1 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| Date analysed | - | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 5.5 | 5.8 | 6.2 | 5.0 | 6.3 |
| pH _{FOX} (field peroxide test)* | pH Units | 3.5 | 5.3 | 6.7 | 3.9 | 3.8 |
| Reaction Rate* | - | Low reaction | High reaction | Medium reaction | Volcanic reaction | Extreme reaction |

| sPOCAS field test | | |
|--|----------|----------------------|
| Our Reference | | 252698-78 |
| Your Reference | UNITS | S-02188.001-TP20_1.5 |
| Depth | | 1.5 |
| Date Sampled | | 1/10/2020 |
| Type of sample | | soil |
| Date prepared | - | 02/10/2020 |
| Date analysed | - | 02/10/2020 |
| pH _F (field pH test)* | pH Units | 6.1 |
| pH _{FOX} (field peroxide test)* | pH Units | 2.8 |
| Reaction Rate* | - | Medium reaction |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | UNITS | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 5,900 | 4,800 | 7,000 | 3,400 | 6,500 |
| Foreign Material | % | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-7 | 252698-9 | 252698-11 | 252698-12 | 252698-18 |
| Your Reference | UNITS | S-02188.001-TP03_1.0 | S-02188.001-TP04_0.3 | S-02188.001-TP05_0.1 | S-02188.001-TP05_1.0 | S-02188.001-TP06_0.1 |
| Depth | | 1 | 0.3 | 0.1 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 5,600 | 6,600 | 5,500 | 4,200 | 5,600 |
| Foreign Material | % | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-20 | 252698-21 | 252698-27 | 252698-28 | 252698-30 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP08_0.2 | S-02188.001-TP08_1.0 | S-02188.001-TP09_0.1 |
| Depth | | 0.1 | 1 | 0.2 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 3,800 | 4,400 | 4,000 | 5,200 | 5,200 |
| Foreign Material | % | <0.05 | <0.05 | 0.20 | <0.05 | 0.17 |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-32 | 252698-33 | 252698-34 | 252698-36 | 252698-37 |
| Your Reference | UNITS | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 | S-02188.001-TP10_0.9 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 |
| Depth | | 1.5 | 0.2 | 0.9 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 3,200 | 4,600 | 3,600 | 3,000 | 3,000 |
| Foreign Material | % | <0.05 | <0.05 | 0.07 | 0.21 | <0.05 |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-39 | 252698-40 | 252698-42 | 252698-43 | 252698-49 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 | S-02188.001-TP14_0.3 |
| Depth | | 0.2 | 1 | 0.3 | 1 | 0.3 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 2,400 | 2,700 | 2,200 | 2,400 | 2,500 |
| Foreign Material | % | <0.05 | <0.05 | 0.10 | <0.05 | 0.14 |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-50 | 252698-52 | 252698-53 | 252698-59 | 252698-60 |
| Your Reference | UNITS | S-02188.001-TP14_1.0 | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP16_0.1 | S-02188.001-TP16_1.0 |
| Depth | | 1 | 0.1 | 1 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 2,300 | 4,700 | 2,600 | 4,700 | 5,500 |
| Foreign Material | % | <0.05 | 0.71 | 0.55 | 0.24 | <0.05 |

| RTA276 ENM* Foreign Material | | | | | | |
|------------------------------|-------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Our Reference | | 252698-66 | 252698-67 | 252698-69 | 252698-70 | 252698-76 |
| Your Reference | UNITS | S-02188.001- TP17_0.1 | S-02188.001- TP17_0.5 | S-02188.001- TP18_0.1 | S-02188.001- TP18_0.5 | S-02188.001- TP20_0.1 |
| Depth | | 0.1 | 0.5 | 0.1 | 0.5 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 | 09/10/2020 |
| Sample Mass Tested | g | 3,800 | 3,400 | 3,700 | 4,800 | 4,000 |
| Foreign Material | % | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| RTA276 ENM* Foreign Material | | |
|------------------------------|-------|--------------------------|
| Our Reference | | 252698-77 |
| Your Reference | UNITS | S-02188.001- TP20_1.0 |
| Depth | | 1 |
| Date Sampled | | 1/10/2020 |
| Type of sample | | soil |
| Date prepared | - | 09/10/2020 |
| Date analysed | - | 09/10/2020 |
| Sample Mass Tested | g | 6,600 |
| Foreign Material | % | <0.05 |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-1 | 252698-2 | 252698-3 | 252698-5 | 252698-6 |
| Your Reference | UNITS | S-02188.001-TP01_0.1 | S-02188.001-TP01_1.0 | S-02188.001-TP02_0.1 | S-02188.001-TP02_0.9 | S-02188.001-TP03_0.1 |
| Depth | | 0.1 | 1 | 0.1 | 0.9 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 01/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 25g | Approx. 35g | Approx. 50g | Approx. 35g | Approx. 35g |
| Sample Description | - | Brown fine-grained soil & rocks | Brown fine-grained soil & rocks | Brown fine-grained soil & rocks | Brown coarse-grained soil & rocks | Brown fine-grained soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-7 | 252698-9 | 252698-11 | 252698-12 | 252698-18 |
| Your Reference | UNITS | S-02188.001-TP03_1.0 | S-02188.001-TP04_0.3 | S-02188.001-TP05_0.1 | S-02188.001-TP05_1.0 | S-02188.001-TP06_0.1 |
| Depth | | 1 | 0.3 | 0.1 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 40g | Approx. 40g | Approx. 35g | Approx. 45g | Approx. 50g |
| Sample Description | - | Brown fine-grained soil & rocks | Brown coarse-grained soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-20 | 252698-21 | 252698-27 | 252698-28 | 252698-30 |
| Your Reference | UNITS | S-02188.001-TP07_0.1 | S-02188.001-TP07_1.0 | S-02188.001-TP08_0.2 | S-02188.001-TP08_1.0 | S-02188.001-TP09_0.1 |
| Depth | | 0.1 | 1 | 0.2 | 1 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 35g | Approx. 35g | Approx. 40g | Approx. 40g | Approx. 40g |
| Sample Description | - | Brown coarse-grained soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-32 | 252698-33 | 252698-34 | 252698-36 | 252698-37 |
| Your Reference | UNITS | S-02188.001-TP09_1.5 | S-02188.001-TP10_0.2 | S-02188.001-TP10_0.9 | S-02188.001-TP11_0.1 | S-02188.001-TP11_1.0 |
| Depth | | 1.5 | 0.2 | 0.9 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 35g | Approx. 40g | Approx. 40g | Approx. 35g | Approx. 40g |
| Sample Description | - | Brown coarse-grained soil & rocks | Brown fine-grained soil & rocks | Brown coarse-grained soil & rocks | Brown fine-grained soil & rocks | Brown fine-grained soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-39 | 252698-40 | 252698-42 | 252698-43 | 252698-49 |
| Your Reference | UNITS | S-02188.001-TP12_0.2 | S-02188.001-TP12_1.0 | S-02188.001-TP13_0.3 | S-02188.001-TP13_1.0 | S-02188.001-TP14_0.3 |
| Depth | | 0.2 | 1 | 0.3 | 1 | 0.3 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 40g | Approx. 50g | Approx. 45g | Approx. 45g | Approx. 40g |
| Sample Description | - | Brown sandy soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-50 | 252698-52 | 252698-53 | 252698-59 | 252698-60 |
| Your Reference | UNITS | S-02188.001-TP14_1.0 | S-02188.001-TP15_0.1 | S-02188.001-TP15_1.0 | S-02188.001-TP16_0.1 | S-02188.001-TP16_1.0 |
| Depth | | 1 | 0.1 | 1 | 0.1 | 1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 55g | Approx. 50g | Approx. 40g | Approx. 35g | Approx. 35g |
| Sample Description | - | Brown fine-grained soil & rocks | Brown coarse-grained soil & rocks | Brown coarse-grained soil & rocks | Brown coarse-grained soil & rocks | Brown clayey soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | | | | | |
|---------------------|-------|--|--|--|--|--|
| Our Reference | | 252698-66 | 252698-67 | 252698-69 | 252698-70 | 252698-76 |
| Your Reference | UNITS | S-02188.001-TP17_0.1 | S-02188.001-TP17_0.5 | S-02188.001-TP18_0.1 | S-02188.001-TP18_0.5 | S-02188.001-TP20_0.1 |
| Depth | | 0.1 | 0.5 | 0.1 | 0.5 | 0.1 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date analysed | - | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 | 12/10/2020 |
| Sample mass tested | g | Approx. 40g | Approx. 35g | Approx. 35g | Approx. 35g | Approx. 40g |
| Sample Description | - | Brown coarse-grained soil & rocks | Brown fine-grained soil & rocks | Brown fine-grained soil & rocks | Brown fine-grained soil & rocks | Brown coarse-grained soil & rocks |
| Asbestos ID in soil | - | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg | No asbestos detected at reporting limit of 0.1g/kg |
| | | Organic fibres detected |
| Trace Analysis | - | No asbestos detected |

| Asbestos ID - soils | | |
|---------------------|-------|---|
| Our Reference | | 252698-77 |
| Your Reference | UNITS | S-02188.001- TP20_1.0 1 |
| Depth | | |
| Date Sampled | | 1/10/2020 |
| Type of sample | | soil |
| Date analysed | - | 12/10/2020 |
| Sample mass tested | g | Approx. 30g |
| 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 |

| Asbestos ID - materials | | |
|----------------------------|-------|---|
| Our Reference | | 252698-79 |
| Your Reference | UNITS | S-02188.001- AS001 |
| Depth | | 0.5 |
| Date Sampled | | 1/10/2020 |
| Type of sample | | material |
| Date analysed | - | 08/10/2020 |
| Mass / Dimension of Sample | - | 100x80x5mm |
| Sample Description | - | Grey fibre cement material |
| Asbestos ID in materials | - | Chrysotile asbestos detected Amosite asbestos detected |
| Trace Analysis | - | [NT] |

| vTRH(C6-C10)/BTEXN in Water | | | |
|---|-------|------------------|------------------|
| Our Reference | | 252698-86 | 252698-87 |
| Your Reference | UNITS | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date extracted | - | 07/10/2020 | 07/10/2020 |
| Date analysed | - | 07/10/2020 | 07/10/2020 |
| TRH C ₆ - C ₉ | µg/L | <10 | <10 |
| TRH C ₆ - C ₁₀ | µg/L | <10 | <10 |
| TRH C ₆ - C ₁₀ less BTEX (F1) | µg/L | <10 | <10 |
| Benzene | µg/L | <1 | <1 |
| Toluene | µg/L | <1 | <1 |
| Ethylbenzene | µg/L | <1 | <1 |
| m+p-xylene | µg/L | <2 | <2 |
| o-xylene | µg/L | <1 | <1 |
| Naphthalene | µg/L | <1 | <1 |
| Surrogate Dibromofluoromethane | % | 107 | 106 |
| Surrogate toluene-d8 | % | 98 | 98 |
| Surrogate 4-BFB | % | 106 | 105 |

| svTRH (C10-C40) in Water | | | |
|--|-------|------------------|------------------|
| Our Reference | | 252698-86 | 252698-87 |
| Your Reference | UNITS | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 09/10/2020 | 09/10/2020 |
| TRH C ₁₀ - C ₁₄ | µg/L | <50 | <50 |
| TRH C ₁₅ - C ₂₈ | µg/L | <100 | <100 |
| TRH C ₂₉ - C ₃₆ | µg/L | <100 | <100 |
| TRH >C ₁₀ - C ₁₆ | µg/L | <50 | <50 |
| TRH >C ₁₀ - C ₁₆ less Naphthalene (F2) | µg/L | <50 | <50 |
| TRH >C ₁₆ - C ₃₄ | µg/L | <100 | <100 |
| TRH >C ₃₄ - C ₄₀ | µg/L | <100 | <100 |
| Surrogate o-Terphenyl | % | 82 | 77 |

| PAHs in Water | | | |
|-----------------------------------|-------|------------------|------------------|
| Our Reference | UNITS | 252698-86 | 252698-87 |
| Your Reference | | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 |
| Naphthalene | µg/L | <1 | <1 |
| Acenaphthylene | µg/L | <1 | <1 |
| Acenaphthene | µg/L | <1 | <1 |
| Fluorene | µg/L | <1 | <1 |
| Phenanthrene | µg/L | <1 | <1 |
| Anthracene | µg/L | <1 | <1 |
| Fluoranthene | µg/L | <1 | <1 |
| Pyrene | µg/L | <1 | <1 |
| Benzo(a)anthracene | µg/L | <1 | <1 |
| Chrysene | µg/L | <1 | <1 |
| Benzo(b,j+k)fluoranthene | µg/L | <2 | <2 |
| Benzo(a)pyrene | µg/L | <1 | <1 |
| Indeno(1,2,3-c,d)pyrene | µg/L | <1 | <1 |
| Dibenzo(a,h)anthracene | µg/L | <1 | <1 |
| Benzo(g,h,i)perylene | µg/L | <1 | <1 |
| Benzo(a)pyrene TEQ | µg/L | <5 | <5 |
| Total +ve PAH's | µg/L | NIL (+)VE | NIL (+)VE |
| Surrogate <i>p</i> -Terphenyl-d14 | % | 85 | 91 |

| Organochlorine Pesticides in Water | | | |
|------------------------------------|-------|------------------|------------------|
| Our Reference | UNITS | 252698-86 | 252698-87 |
| Your Reference | | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 |
| alpha-BHC | µg/L | <0.2 | <0.2 |
| HCB | µg/L | <0.2 | <0.2 |
| beta-BHC | µg/L | <0.2 | <0.2 |
| gamma-BHC | µg/L | <0.2 | <0.2 |
| Heptachlor | µg/L | <0.2 | <0.2 |
| delta-BHC | µg/L | <0.2 | <0.2 |
| Aldrin | µg/L | <0.2 | <0.2 |
| Heptachlor Epoxide | µg/L | <0.2 | <0.2 |
| gamma-Chlordane | µg/L | <0.2 | <0.2 |
| alpha-Chlordane | µg/L | <0.2 | <0.2 |
| Endosulfan I | µg/L | <0.2 | <0.2 |
| pp-DDE | µg/L | <0.2 | <0.2 |
| Dieldrin | µg/L | <0.2 | <0.2 |
| Endrin | µg/L | <0.2 | <0.2 |
| Endosulfan II | µg/L | <0.2 | <0.2 |
| pp-DDD | µg/L | <0.2 | <0.2 |
| Endrin Aldehyde | µg/L | <0.2 | <0.2 |
| pp-DDT | µg/L | <0.2 | <0.2 |
| Endosulfan Sulphate | µg/L | <0.2 | <0.2 |
| Methoxychlor | µg/L | <0.2 | <0.2 |
| Surrogate TCMX | % | 76 | 81 |

| OP Pesticides in Water | | | |
|---------------------------|-------|------------------|------------------|
| Our Reference | | 252698-86 | 252698-87 |
| Your Reference | UNITS | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 |
| Dichlorvos | µg/L | <0.2 | <0.2 |
| Dimethoate | µg/L | <0.2 | <0.2 |
| Diazinon | µg/L | <0.2 | <0.2 |
| Chlorpyriphos-methyl | µg/L | <0.2 | <0.2 |
| Ronnel | µg/L | <0.2 | <0.2 |
| Fenitrothion | µg/L | <0.2 | <0.2 |
| Malathion | µg/L | <0.2 | <0.2 |
| Chlorpyriphos | µg/L | <0.2 | <0.2 |
| Parathion | µg/L | <0.2 | <0.2 |
| Bromophos ethyl | µg/L | <0.2 | <0.2 |
| Ethion | µg/L | <0.2 | <0.2 |
| Azinphos-methyl (Guthion) | µg/L | <0.2 | <0.2 |
| Surrogate TCMX | % | 76 | 81 |

| PCBs in Water | | | |
|----------------|-------|------------------|------------------|
| Our Reference | | 252698-86 | 252698-87 |
| Your Reference | UNITS | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date extracted | - | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 |
| Aroclor 1016 | µg/L | <2 | <2 |
| Aroclor 1221 | µg/L | <2 | <2 |
| Aroclor 1232 | µg/L | <2 | <2 |
| Aroclor 1242 | µg/L | <2 | <2 |
| Aroclor 1248 | µg/L | <2 | <2 |
| Aroclor 1254 | µg/L | <2 | <2 |
| Aroclor 1260 | µg/L | <2 | <2 |
| Surrogate TCMX | % | 76 | 81 |

| Metals in Water - Dissolved | | | |
|-----------------------------|-------|------------------|------------------|
| Our Reference | | 252698-86 | 252698-87 |
| Your Reference | UNITS | S-02188.001-RB01 | S-02188.001-RB02 |
| Depth | | - | - |
| Date Sampled | | 1/10/2020 | 02/10/2020 |
| Type of sample | | soil | soil |
| Date digested | - | 08/10/2020 | 08/10/2020 |
| Date analysed | - | 08/10/2020 | 08/10/2020 |
| Arsenic - Dissolved | mg/L | <0.05 | <0.05 |
| Cadmium - Dissolved | mg/L | <0.01 | <0.01 |
| Chromium - Dissolved | mg/L | <0.01 | <0.01 |
| Copper - Dissolved | mg/L | <0.01 | <0.01 |
| Lead - Dissolved | mg/L | <0.03 | <0.03 |
| Mercury - Dissolved | mg/L | <0.0005 | <0.0005 |
| Nickel - Dissolved | mg/L | <0.02 | <0.02 |
| Zinc - Dissolved | mg/L | <0.02 | <0.02 |

| Method ID | Methodology Summary |
|-------------------|---|
| 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. |
| 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-002 | Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons. |
| Inorg-008 | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours. |
| Inorg-063 | pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. Based on section H, Acid Sulfate Soils Laboratory Methods Guidelines, Version 2.1 - June 2004. To ensure accurate results these tests are recommended to be done in the field as pH may change with time thus these results may not be representative of true field conditions. |
| Inorg-080 | This method is based on RTA T276 and as per NSW DECC Resource Recovery Exemption Guidelines. RTA T276 requires at least 6kg of sample for this test. Where foreign materials are found, more details may be available on the types and/or quantities in the Comments section of the report. |
| Metals-020 | Determination of various metals by ICP-AES. |
| Metals-021 | Determination of Mercury by Cold Vapour AAS. |
| Org-020 | 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. |
| Org-020 | 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-021 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. |
| Org-021 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. 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. |

| Method ID | Methodology Summary |
|-------------|---|
| Org-022 | Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS. |
| Org-022/025 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. |
| Org-022/025 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. |
| | Note, 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 reported DDD+DDE+DDT. |
| Org-022/025 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. |
| Org-022/025 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/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-023 | Water samples are analysed directly by purge and trap GC-MS. |
| Org-023 | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. |
| Org-023 | 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. |
| Org-023 | 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. |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|-------|-----|---------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 |
| Date extracted | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 09/10/2020 | 8 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | <25 | 8 | <25 | <25 | 0 | 105 | 85 |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | <25 | 8 | <25 | <25 | 0 | 105 | 85 |
| Benzene | mg/kg | 0.2 | Org-023 | <0.2 | 8 | <0.2 | <0.2 | 0 | 84 | 72 |
| Toluene | mg/kg | 0.5 | Org-023 | <0.5 | 8 | <0.5 | <0.5 | 0 | 123 | 94 |
| Ethylbenzene | mg/kg | 1 | Org-023 | <1 | 8 | <1 | <1 | 0 | 106 | 88 |
| m+p-xylene | mg/kg | 2 | Org-023 | <2 | 8 | <2 | <2 | 0 | 105 | 86 |
| o-Xylene | mg/kg | 1 | Org-023 | <1 | 8 | <1 | <1 | 0 | 106 | 85 |
| naphthalene | mg/kg | 1 | Org-023 | <1 | 8 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | 126 | 8 | 94 | 94 | 0 | 126 | 101 |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 |
| Date extracted | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 19 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 19 | <25 | <25 | 0 | 113 | 103 |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 19 | <25 | <25 | 0 | 113 | 103 |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 19 | <0.2 | <0.2 | 0 | 104 | 90 |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 19 | <0.5 | <0.5 | 0 | 120 | 112 |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 19 | <1 | <1 | 0 | 107 | 96 |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 19 | <2 | <2 | 0 | 116 | 109 |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 19 | <1 | <1 | 0 | 111 | 108 |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 19 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 19 | 122 | 117 | 4 | 124 | 120 |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 |
| Date extracted | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 29 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 29 | <25 | <25 | 0 | 101 | 106 |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 29 | <25 | <25 | 0 | 101 | 106 |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 29 | <0.2 | <0.2 | 0 | 87 | 95 |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 29 | <0.5 | <0.5 | 0 | 114 | 106 |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 29 | <1 | <1 | 0 | 92 | 101 |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 29 | <2 | <2 | 0 | 106 | 115 |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 29 | <1 | <1 | 0 | 105 | 115 |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 29 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 29 | 118 | 121 | 3 | 124 | 125 |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 |
| Date extracted | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 51 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | 09/10/2020 |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 51 | <25 | <25 | 0 | 106 | 105 |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 51 | <25 | <25 | 0 | 106 | 105 |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 51 | <0.2 | <0.2 | 0 | 102 | 94 |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 51 | <0.5 | <0.5 | 0 | 104 | 110 |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 51 | <1 | <1 | 0 | 107 | 98 |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 51 | <2 | <2 | 0 | 108 | 112 |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 51 | <1 | <1 | 0 | 108 | 112 |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 51 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 51 | 122 | 119 | 2 | 126 | 123 |

| 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] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 54 | <25 | <25 | 0 | [NT] | [NT] |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 54 | <25 | <25 | 0 | [NT] | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 54 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 54 | <0.5 | <0.5 | 0 | [NT] | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 54 | <1 | <1 | 0 | [NT] | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 54 | <2 | <2 | 0 | [NT] | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 54 | <1 | <1 | 0 | [NT] | [NT] |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 54 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 54 | 127 | 117 | 8 | [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 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 61 | <25 | <25 | 0 | [NT] | [NT] |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 61 | <25 | <25 | 0 | [NT] | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 61 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 61 | <0.5 | <0.5 | 0 | [NT] | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 61 | <1 | <1 | 0 | [NT] | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 61 | <2 | <2 | 0 | [NT] | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 61 | <1 | <1 | 0 | [NT] | [NT] |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 61 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 61 | 125 | 117 | 7 | [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] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 75 | <25 | <25 | 0 | [NT] | [NT] |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 75 | <25 | <25 | 0 | [NT] | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 75 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 75 | <0.5 | <0.5 | 0 | [NT] | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 75 | <1 | <1 | 0 | [NT] | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 75 | <2 | <2 | 0 | [NT] | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 75 | <1 | <1 | 0 | [NT] | [NT] |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 75 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 75 | 128 | 122 | 5 | [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] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₆ - C ₉ | mg/kg | 25 | Org-023 | [NT] | 78 | <25 | <25 | 0 | [NT] | [NT] |
| TRH C ₆ - C ₁₀ | mg/kg | 25 | Org-023 | [NT] | 78 | <25 | <25 | 0 | [NT] | [NT] |
| Benzene | mg/kg | 0.2 | Org-023 | [NT] | 78 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Toluene | mg/kg | 0.5 | Org-023 | [NT] | 78 | <0.5 | <0.5 | 0 | [NT] | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-023 | [NT] | 78 | <1 | <1 | 0 | [NT] | [NT] |
| m+p-xylene | mg/kg | 2 | Org-023 | [NT] | 78 | <2 | <2 | 0 | [NT] | [NT] |
| o-Xylene | mg/kg | 1 | Org-023 | [NT] | 78 | <1 | <1 | 0 | [NT] | [NT] |
| naphthalene | mg/kg | 1 | Org-023 | [NT] | 78 | <1 | <1 | 0 | [NT] | [NT] |
| Surrogate aaa-Trifluorotoluene | % | | Org-023 | [NT] | 78 | 124 | 126 | 2 | [NT] | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 |
| Date extracted | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | <50 | 8 | <50 | <50 | 0 | 110 | 95 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | <100 | 8 | <100 | <100 | 0 | 80 | 77 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | <100 | 8 | <100 | <100 | 0 | 77 | 77 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | <50 | 8 | <50 | <50 | 0 | 110 | 95 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | <100 | 8 | <100 | <100 | 0 | 80 | 77 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | <100 | 8 | <100 | <100 | 0 | 77 | 77 |
| Surrogate o-Terphenyl | % | | Org-020 | 94 | 8 | 85 | 83 | 2 | 95 | 84 |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 |
| Date extracted | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 09/10/2020 |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 19 | <50 | <50 | 0 | 115 | 105 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 19 | <100 | <100 | 0 | 88 | 82 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 19 | <100 | <100 | 0 | 92 | 105 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 19 | <50 | <50 | 0 | 115 | 105 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 19 | <100 | <100 | 0 | 88 | 82 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 19 | <100 | <100 | 0 | 92 | 105 |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 19 | 87 | 87 | 0 | 98 | 89 |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 |
| Date extracted | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 29 | <50 | <50 | 0 | 115 | 104 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 29 | <100 | <100 | 0 | 84 | 87 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 29 | <100 | <100 | 0 | 68 | 74 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 29 | <50 | <50 | 0 | 115 | 104 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 29 | <100 | <100 | 0 | 84 | 87 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 29 | <100 | <100 | 0 | 68 | 74 |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 29 | 87 | 86 | 1 | 99 | 95 |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 |
| Date extracted | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 51 | 09/10/2020 | 09/10/2020 | | 08/10/2020 | 09/10/2020 |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 51 | <50 | <50 | 0 | 112 | 103 |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 51 | <100 | <100 | 0 | 81 | 84 |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 51 | <100 | <100 | 0 | 77 | 82 |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 51 | <50 | <50 | 0 | 112 | 103 |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 51 | <100 | <100 | 0 | 81 | 84 |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 51 | <100 | <100 | 0 | 77 | 82 |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 51 | 91 | 93 | 2 | 97 | 93 |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 54 | <50 | <50 | 0 | [NT] | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 54 | <100 | <100 | 0 | [NT] | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 54 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 54 | <50 | <50 | 0 | [NT] | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 54 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 54 | <100 | <100 | 0 | [NT] | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 54 | 108 | 92 | 16 | [NT] | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 61 | <50 | <50 | 0 | [NT] | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 61 | <100 | <100 | 0 | [NT] | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 61 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 61 | <50 | <50 | 0 | [NT] | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 61 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 61 | <100 | <100 | 0 | [NT] | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 61 | 100 | 90 | 11 | [NT] | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 75 | <50 | <50 | 0 | [NT] | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 75 | <100 | <100 | 0 | [NT] | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 75 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 75 | <50 | <50 | 0 | [NT] | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 75 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 75 | <100 | <100 | 0 | [NT] | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 75 | 91 | 90 | 1 | [NT] | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| TRH C ₁₀ - C ₁₄ | mg/kg | 50 | Org-020 | [NT] | 78 | <50 | <50 | 0 | [NT] | [NT] |
| TRH C ₁₅ - C ₂₈ | mg/kg | 100 | Org-020 | [NT] | 78 | <100 | <100 | 0 | [NT] | [NT] |
| TRH C ₂₉ - C ₃₆ | mg/kg | 100 | Org-020 | [NT] | 78 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₁₀ -C ₁₆ | mg/kg | 50 | Org-020 | [NT] | 78 | <50 | <50 | 0 | [NT] | [NT] |
| TRH >C ₁₆ -C ₃₄ | mg/kg | 100 | Org-020 | [NT] | 78 | <100 | <100 | 0 | [NT] | [NT] |
| TRH >C ₃₄ -C ₄₀ | mg/kg | 100 | Org-020 | [NT] | 78 | <100 | <100 | 0 | [NT] | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | [NT] | 78 | 93 | 87 | 7 | [NT] | [NT] |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|------|-------------|------------|---|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 | |
| Date extracted | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 90 | 94 | |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 91 | 92 | |
| Fluorene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 91 | 91 | |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 99 | 103 | |
| Anthracene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 96 | 104 | |
| Pyrene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 93 | 100 | |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Chrysene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 86 | 88 | |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | <0.2 | 8 | <0.2 | <0.2 | 0 | [NT] | [NT] | |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | <0.05 | 8 | <0.05 | <0.05 | 0 | 100 | 76 | |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | 96 | 8 | 99 | 100 | 1 | 91 | 96 | |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 | |
| Date extracted | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 79 | 77 | |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 89 | 92 | |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 88 | 89 | |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 101 | 101 | |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 100 | 102 | |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 98 | 100 | |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 86 | 88 | |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 19 | <0.2 | <0.2 | 0 | [NT] | [NT] | |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 19 | <0.05 | <0.05 | 0 | 78 | 78 | |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 19 | 96 | 95 | 1 | 96 | 100 | |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 | |
| Date extracted | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 84 | 92 | |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 108 | 91 | |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 98 | 91 | |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | 0.2 | <0.1 | 67 | 102 | 93 | |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | 0.4 | 0.2 | 67 | 118 | 105 | |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | 0.4 | 0.2 | 67 | 114 | 95 | |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | 0.1 | <0.1 | 0 | [NT] | [NT] | |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | 0.1 | <0.1 | 0 | 84 | 98 | |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 29 | 0.3 | <0.2 | 40 | [NT] | [NT] | |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 29 | 0.1 | 0.07 | 35 | 100 | 97 | |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | 0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 29 | 105 | 100 | 5 | 98 | 100 | |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 | |
| Date extracted | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | [NT] | 51 | 09/10/2020 | 09/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 88 | 88 | |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 98 | 87 | |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 89 | 88 | |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 93 | 91 | |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 104 | 105 | |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 96 | 95 | |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 98 | 94 | |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 51 | <0.2 | <0.2 | 0 | [NT] | [NT] | |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 51 | <0.05 | <0.05 | 0 | 95 | 86 | |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 51 | 99 | 101 | 2 | 102 | 98 | |

| QUALITY CONTROL: PAHs in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | 0.2 | 0.1 | 67 | [NT] | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | 0.2 | 0.1 | 67 | [NT] | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 54 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 54 | 0.05 | <0.05 | 0 | [NT] | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 54 | 108 | 104 | 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] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 61 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 61 | <0.05 | <0.05 | 0 | [NT] | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 61 | 101 | 98 | 3 | [NT] | [NT] |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 75 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 75 | <0.05 | <0.05 | 0 | [NT] | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 75 | 101 | 100 | 1 | [NT] | [NT] |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-022/025 | [NT] | 78 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-022/025 | [NT] | 78 | <0.05 | <0.05 | 0 | [NT] | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | [NT] | 78 | 100 | 105 | 5 | [NT] | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 |
| Date extracted | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 94 | 101 |
| HCB | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 87 | 92 |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 81 | 73 |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 95 | 106 |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 95 | 101 |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 85 | 94 |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 91 | 99 |
| Endrin | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 77 | 70 |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 80 | 77 |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 78 | 82 |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | 104 | 8 | 101 | 104 | 3 | 99 | 98 |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 |
| Date extracted | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 96 | 101 |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 91 | 92 |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 70 | 71 |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 103 | 103 |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 97 | 99 |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 89 | 97 |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 97 | 99 |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 82 | 73 |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 70 | 86 |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 76 | 84 |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 19 | 102 | 102 | 0 | 103 | 99 |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 |
| Date extracted | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 112 | 64 |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 98 | 79 |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 84 | 79 |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 116 | 92 |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 106 | 103 |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 104 | 91 |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 102 | 91 |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 78 | 94 |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 88 | 74 |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 92 | 80 |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 29 | 102 | 99 | 3 | 104 | 94 |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 |
| Date extracted | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 51 | 09/10/2020 | 09/10/2020 | | 08/10/2020 | 08/10/2020 |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 77 | 92 |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 83 | 79 |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 83 | 69 |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 94 | 90 |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 95 | 103 |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 87 | 92 |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 93 | 97 |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 108 | 90 |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 76 | 76 |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 82 | 76 |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 51 | 98 | 100 | 2 | 93 | 93 |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 54 | 109 | 103 | 6 | [NT] | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 61 | 96 | 97 | 1 | [NT] | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 75 | 95 | 91 | 4 | [NT] | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| HCB | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 78 | 92 | 92 | 0 | [NT] | [NT] |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 |
| Date extracted | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 90 | 80 |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 100 | 95 |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 70 | 67 |
| Malathion | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 80 | 102 |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 92 | 97 |
| Parathion | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 72 | 69 |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | 80 | 87 |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | 104 | 8 | 101 | 104 | 3 | 96 | 98 |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 |
| Date extracted | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 80 | 82 |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 104 | 98 |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 72 | 77 |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 84 | 118 |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 96 | 101 |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 74 | 78 |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | 86 | 101 |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 19 | 102 | 102 | 0 | 99 | 99 |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 |
| Date extracted | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 76 | 82 |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 110 | 84 |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 78 | 83 |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 100 | 104 |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 85 | 89 |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 78 | 94 |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | 96 | 114 |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 29 | 102 | 99 | 3 | 104 | 94 |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 |
| Date extracted | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 51 | 09/10/2020 | 09/10/2020 | | 08/10/2020 | 08/10/2020 |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 94 | 76 |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 86 | 88 |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 100 | 89 |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 118 | 118 |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 91 | 93 |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 94 | 75 |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | 91 | 120 |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 51 | 98 | 100 | 2 | 93 | 93 |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 54 | 109 | 103 | 6 | [NT] | [NT] |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 61 | 96 | 97 | 1 | [NT] | [NT] |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 75 | 95 | 91 | 4 | [NT] | [NT] |

| QUALITY CONTROL: Organophosphorus Pesticides in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|-------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Dichlorvos | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Dimethoate | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Diazinon | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ronnel | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Fenitrothion | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Malathion | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Chlorpyriphos | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Parathion | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Bromophos-ethyl | mg/kg | 0.1 | Org-022 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Ethion | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Azinphos-methyl (Guthion) | mg/kg | 0.1 | Org-022/025 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | [NT] | 78 | 92 | 92 | 0 | [NT] | [NT] |

| QUALITY CONTROL: PCBs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|-----|---------|------------|---|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 | |
| Date extracted | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | 100 | 100 | |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate TCMX | % | | Org-021 | 104 | 8 | 101 | 104 | 3 | 99 | 98 | |

| QUALITY CONTROL: PCBs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 | |
| Date extracted | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | 99 | 100 | |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 19 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate TCMX | % | | Org-021 | [NT] | 19 | 102 | 102 | 0 | 103 | 99 | |

| QUALITY CONTROL: PCBs in Soil | | | | | | Duplicate | | | Spike Recovery % | | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 | |
| Date extracted | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Date analysed | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 | |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | 100 | 100 | |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 29 | <0.1 | <0.1 | 0 | [NT] | [NT] | |
| Surrogate TCMX | % | | Org-021 | [NT] | 29 | 102 | 99 | 3 | 104 | 94 | |

| QUALITY CONTROL: PCBs in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 |
| Date extracted | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 51 | 09/10/2020 | 09/10/2020 | | 08/10/2020 | 08/10/2020 |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | 100 | 120 |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 51 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 51 | 98 | 100 | 2 | 93 | 93 |

| QUALITY CONTROL: PCBs in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 54 | 109 | 103 | 6 | [NT] | [NT] |

| QUALITY CONTROL: PCBs in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 61 | 96 | 97 | 1 | [NT] | [NT] |

| QUALITY CONTROL: PCBs in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 75 | 95 | 91 | 4 | [NT] | [NT] |

| QUALITY CONTROL: PCBs in Soil | | | | | | | Duplicate | | Spike Recovery % | |
|-------------------------------|-------|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date extracted | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | [NT] | 78 | 92 | 92 | 0 | [NT] | [NT] |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | 252698-10 |
| Date prepared | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 8 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 4 | Metals-020 | <4 | 8 | <4 | <4 | 0 | 99 | 102 |
| Cadmium | mg/kg | 0.4 | Metals-020 | <0.4 | 8 | <0.4 | <0.4 | 0 | 91 | 93 |
| Chromium | mg/kg | 1 | Metals-020 | <1 | 8 | 7 | 7 | 0 | 94 | 99 |
| Copper | mg/kg | 1 | Metals-020 | <1 | 8 | 2 | 1 | 67 | 100 | 107 |
| Lead | mg/kg | 1 | Metals-020 | <1 | 8 | 11 | 9 | 20 | 97 | 103 |
| Mercury | mg/kg | 0.1 | Metals-021 | <0.1 | 8 | <0.1 | <0.1 | 0 | 108 | 110 |
| Nickel | mg/kg | 1 | Metals-020 | <1 | 8 | 3 | 2 | 40 | 100 | 103 |
| Zinc | mg/kg | 1 | Metals-020 | <1 | 8 | 5 | 3 | 50 | 97 | 100 |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | 252698-35 |
| Date prepared | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 19 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 19 | 5 | <4 | 22 | 102 | 82 |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 19 | <0.4 | <0.4 | 0 | 94 | 86 |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 19 | 11 | 9 | 20 | 97 | 93 |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 19 | 5 | 4 | 22 | 101 | 114 |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 19 | 13 | 11 | 17 | 99 | 106 |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 19 | <0.1 | <0.1 | 0 | 109 | # |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 19 | 5 | 4 | 22 | 102 | 96 |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 19 | 28 | 19 | 38 | 100 | 103 |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | 252698-65 |
| Date prepared | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 29 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 29 | <4 | <4 | 0 | 112 | 83 |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 29 | <0.4 | <0.4 | 0 | 105 | 80 |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 29 | 6 | 7 | 15 | 109 | 84 |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 29 | 2 | 8 | 120 | 112 | 90 |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 29 | 8 | 54 | 148 | 112 | 88 |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 29 | <0.1 | 0.2 | 67 | 105 | 91 |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 29 | 4 | 4 | 0 | 114 | 86 |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 29 | 7 | 32 | 128 | 113 | 86 |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | 252698-83 |
| Date prepared | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | [NT] | 51 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 51 | 5 | 4 | 22 | 101 | 93 |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 51 | <0.4 | <0.4 | 0 | 94 | 84 |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 51 | 7 | 8 | 13 | 97 | 90 |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 51 | 5 | 6 | 18 | 99 | 99 |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 51 | 15 | 18 | 18 | 100 | 92 |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 51 | <0.1 | <0.1 | 0 | 105 | 101 |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 51 | 4 | 4 | 0 | 101 | 93 |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 51 | 35 | 36 | 3 | 102 | 88 |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 54 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 54 | 6 | 6 | 0 | [NT] | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 54 | <0.4 | <0.4 | 0 | [NT] | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 54 | 9 | 9 | 0 | [NT] | [NT] |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 54 | 7 | 6 | 15 | [NT] | [NT] |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 54 | 16 | 16 | 0 | [NT] | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 54 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 54 | 6 | 7 | 15 | [NT] | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 54 | 110 | 120 | 9 | [NT] | [NT] |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 61 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 61 | <4 | <4 | 0 | [NT] | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 61 | <0.4 | <0.4 | 0 | [NT] | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 61 | 6 | 5 | 18 | [NT] | [NT] |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 61 | 6 | 5 | 18 | [NT] | [NT] |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 61 | 5 | 5 | 0 | [NT] | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 61 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 61 | <1 | <1 | 0 | [NT] | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 61 | 2 | 2 | 0 | [NT] | [NT] |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 75 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 75 | 4 | <4 | 0 | [NT] | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 75 | <0.4 | <0.4 | 0 | [NT] | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 75 | 10 | 10 | 0 | [NT] | [NT] |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 75 | 3 | 3 | 0 | [NT] | [NT] |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 75 | 39 | 55 | 34 | [NT] | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 75 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 75 | <1 | 1 | 0 | [NT] | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 75 | 37 | 36 | 3 | [NT] | [NT] |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 78 | 08/10/2020 | 08/10/2020 | | [NT] | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | [NT] | 78 | <4 | <4 | 0 | [NT] | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | [NT] | 78 | <0.4 | <0.4 | 0 | [NT] | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | [NT] | 78 | <1 | 1 | 0 | [NT] | [NT] |
| Copper | mg/kg | 1 | Metals-020 | [NT] | 78 | <1 | <1 | 0 | [NT] | [NT] |
| Lead | mg/kg | 1 | Metals-020 | [NT] | 78 | 1 | 2 | 67 | [NT] | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | [NT] | 78 | <0.1 | <0.1 | 0 | [NT] | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | [NT] | 78 | <1 | <1 | 0 | [NT] | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | [NT] | 78 | 2 | 5 | 86 | [NT] | [NT] |

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|----------|-----|-----------|------------|---|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-9 | [NT] |
| Date prepared | - | | | 09/10/2020 | 1 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| Date analysed | - | | | 09/10/2020 | 1 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| pH 1:5 soil:water | pH Units | | Inorg-001 | [NT] | 1 | 7.9 | 7.9 | 0 | 100 | [NT] |
| Electrical Conductivity 1:5 soil:water | µS/cm | 1 | Inorg-002 | <1 | 1 | 57 | 55 | 4 | 100 | [NT] |

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|----------|-----|-----------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-10 | [NT] |
| Date prepared | - | | | [NT] | 12 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| Date analysed | - | | | [NT] | 12 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| pH 1:5 soil:water | pH Units | | Inorg-001 | [NT] | 12 | 6.1 | 6.1 | 0 | 99 | [NT] |
| Electrical Conductivity 1:5 soil:water | µS/cm | 1 | Inorg-002 | [NT] | 12 | 37 | 40 | 8 | 100 | [NT] |

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|----------|-----|-----------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-11 | [NT] |
| Date prepared | - | | | [NT] | 28 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| Date analysed | - | | | [NT] | 28 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| pH 1:5 soil:water | pH Units | | Inorg-001 | [NT] | 28 | 6.4 | 6.4 | 0 | 100 | [NT] |
| Electrical Conductivity 1:5 soil:water | µS/cm | 1 | Inorg-002 | [NT] | 28 | 32 | 31 | 3 | 105 | [NT] |

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|----------|-----|-----------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-12 | [NT] |
| Date prepared | - | | | [NT] | 39 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| Date analysed | - | | | [NT] | 39 | 09/10/2020 | 09/10/2020 | | 09/10/2020 | [NT] |
| pH 1:5 soil:water | pH Units | | Inorg-001 | [NT] | 39 | 7.5 | 7.6 | 1 | 100 | [NT] |
| Electrical Conductivity 1:5 soil:water | µS/cm | 1 | Inorg-002 | [NT] | 39 | 96 | 91 | 5 | 104 | [NT] |

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|----------|-----|-----------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 52 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 52 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| pH 1:5 soil:water | pH Units | | Inorg-001 | [NT] | 52 | 9.7 | 9.4 | 3 | [NT] | [NT] |
| Electrical Conductivity 1:5 soil:water | µS/cm | 1 | Inorg-002 | [NT] | 52 | 140 | 120 | 15 | [NT] | [NT] |

| QUALITY CONTROL: Misc Inorg - Soil | | | | | | | Duplicate | | Spike Recovery % | |
|--|----------|-----|-----------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | [NT] | 68 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| Date analysed | - | | | [NT] | 68 | 09/10/2020 | 09/10/2020 | | [NT] | [NT] |
| pH 1:5 soil:water | pH Units | | Inorg-001 | [NT] | 68 | 5.0 | 5.0 | 0 | [NT] | [NT] |
| Electrical Conductivity 1:5 soil:water | µS/cm | 1 | Inorg-002 | [NT] | 68 | 170 | 180 | 6 | [NT] | [NT] |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water | | | | | | | Duplicate | | Spike Recovery % | |
|--|-------|-----|---------|------------|------|------|-----------|------|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W1 | [NT] |
| Date extracted | - | | | 07/10/2020 | [NT] | [NT] | [NT] | [NT] | 07/10/2020 | [NT] |
| Date analysed | - | | | 07/10/2020 | [NT] | [NT] | [NT] | [NT] | 07/10/2020 | [NT] |
| TRH C ₆ - C ₉ | µg/L | 10 | Org-023 | <10 | [NT] | [NT] | [NT] | [NT] | 96 | [NT] |
| TRH C ₆ - C ₁₀ | µg/L | 10 | Org-023 | <10 | [NT] | [NT] | [NT] | [NT] | 96 | [NT] |
| Benzene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 86 | [NT] |
| Toluene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 86 | [NT] |
| Ethylbenzene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 103 | [NT] |
| m+p-xylene | µg/L | 2 | Org-023 | <2 | [NT] | [NT] | [NT] | [NT] | 103 | [NT] |
| o-xylene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | 104 | [NT] |
| Naphthalene | µg/L | 1 | Org-023 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Surrogate Dibromofluoromethane | % | | Org-023 | 105 | [NT] | [NT] | [NT] | [NT] | 75 | [NT] |
| Surrogate toluene-d8 | % | | Org-023 | 103 | [NT] | [NT] | [NT] | [NT] | 75 | [NT] |
| Surrogate 4-BFB | % | | Org-023 | 108 | [NT] | [NT] | [NT] | [NT] | 86 | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Water | | | | | Duplicate | | | Spike Recovery % | | |
|---|-------|-----|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W2 | [NT] |
| Date extracted | - | | | 08/10/2020 | [NT] | [NT] | [NT] | [NT] | 08/10/2020 | [NT] |
| Date analysed | - | | | 08/10/2020 | [NT] | [NT] | [NT] | [NT] | 08/10/2020 | [NT] |
| TRH C ₁₀ - C ₁₄ | µg/L | 50 | Org-020 | <50 | [NT] | [NT] | [NT] | [NT] | 79 | [NT] |
| TRH C ₁₅ - C ₂₈ | µg/L | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 70 | [NT] |
| TRH C ₂₉ - C ₃₆ | µg/L | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 82 | [NT] |
| TRH >C ₁₀ - C ₁₆ | µg/L | 50 | Org-020 | <50 | [NT] | [NT] | [NT] | [NT] | 79 | [NT] |
| TRH >C ₁₆ - C ₃₄ | µg/L | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 70 | [NT] |
| TRH >C ₃₄ - C ₄₀ | µg/L | 100 | Org-020 | <100 | [NT] | [NT] | [NT] | [NT] | 82 | [NT] |
| Surrogate o-Terphenyl | % | | Org-020 | 70 | [NT] | [NT] | [NT] | [NT] | 127 | [NT] |

| QUALITY CONTROL: PAHs in Water | | | | | Duplicate | | | Spike Recovery % | | |
|--------------------------------|-------|-----|-------------|------------|-----------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W3 | [NT] |
| Date extracted | - | | | 08/10/2020 | [NT] | [NT] | [NT] | [NT] | 08/10/2020 | [NT] |
| Date analysed | - | | | 08/10/2020 | [NT] | [NT] | [NT] | [NT] | 08/10/2020 | [NT] |
| Naphthalene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 80 | [NT] |
| Acenaphthylene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Acenaphthene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 78 | [NT] |
| Fluorene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 86 | [NT] |
| Phenanthrene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 84 | [NT] |
| Anthracene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Fluoranthene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 83 | [NT] |
| Pyrene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 86 | [NT] |
| Benzo(a)anthracene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Chrysene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 80 | [NT] |
| Benzo(b,j+k)fluoranthene | µg/L | 2 | Org-022/025 | <2 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(a)pyrene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | 75 | [NT] |
| Indeno(1,2,3-c,d)pyrene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Dibenzo(a,h)anthracene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(g,h,i)perylene | µg/L | 1 | Org-022/025 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | 101 | [NT] | [NT] | [NT] | [NT] | 81 | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in Water | | | | | | | Duplicate | | Spike Recovery % | |
|---|-------|-----|-------------|------------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W3 | 252698-87 |
| Date extracted | - | | | 08/10/2020 | 86 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 86 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| alpha-BHC | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 81 | 120 |
| HCB | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| beta-BHC | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 80 | 108 |
| gamma-BHC | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Heptachlor | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 74 | 97 |
| delta-BHC | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Aldrin | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 93 | 134 |
| Heptachlor Epoxide | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 87 | 119 |
| gamma-Chlordane | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| alpha-Chlordane | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Endosulfan I | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| pp-DDE | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 81 | 116 |
| Dieldrin | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 86 | 92 |
| Endrin | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 70 | 81 |
| Endosulfan II | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| pp-DDD | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 74 | 107 |
| Endrin Aldehyde | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| pp-DDT | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Endosulfan Sulphate | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 79 | 97 |
| Methoxychlor | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | 83 | 86 | 76 | 110 | 37 | 74 | 104 |

| QUALITY CONTROL: OP Pesticides in Water | | | | | | | Duplicate | | Spike Recovery % | |
|---|-------|-----|-------------|------------|----|------------|------------|-----|------------------|------------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W3 | 252698-87 |
| Date extracted | - | | | 08/10/2020 | 86 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 86 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Dichlorvos | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 82 | 105 |
| Dimethoate | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Diazinon | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Chlorpyriphos-methyl | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Ronnel | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 77 | 120 |
| Fenitrothion | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 78 | 84 |
| Malathion | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 88 | 120 |
| Chlorpyriphos | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 85 | 115 |
| Parathion | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 70 | 91 |
| Bromophos ethyl | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Ethion | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | 80 | 109 |
| Azinphos-methyl (Guthion) | µg/L | 0.2 | Org-022/025 | <0.2 | 86 | <0.2 | <0.2 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-022/025 | 83 | 86 | 76 | 110 | 37 | 74 | 104 |

| Test Description | Units | QUALITY CONTROL: PCBs in Water | | | | Duplicate | | | Spike Recovery % | |
|------------------|-------|--------------------------------|---------|------------|----|------------|------------|-----|------------------|------------|
| | | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W3 | 252698-87 |
| Date extracted | - | | | 08/10/2020 | 86 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Date analysed | - | | | 08/10/2020 | 86 | 08/10/2020 | 08/10/2020 | | 08/10/2020 | 08/10/2020 |
| Aroclor 1016 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | [NT] | [NT] |
| Aroclor 1221 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | [NT] | [NT] |
| Aroclor 1232 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | [NT] | [NT] |
| Aroclor 1242 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | [NT] | [NT] |
| Aroclor 1248 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | [NT] | [NT] |
| Aroclor 1254 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | 100 | 115 |
| Aroclor 1260 | µg/L | 2 | Org-021 | <2 | 86 | <2 | <2 | 0 | [NT] | [NT] |
| Surrogate TCMX | % | | Org-021 | 83 | 86 | 76 | 110 | 37 | 74 | 114 |

| QUALITY CONTROL: Metals in Water - Dissolved | | | | | | Duplicate | | | Spike Recovery % | | |
|--|-------|--------|------------|------------|------|-----------|------|------|------------------|------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W1 | [NT] | |
| Date digested | - | | | 08/10/2020 | [NT] | [NT] | [NT] | [NT] | 08/10/2020 | [NT] | |
| Date analysed | - | | | 08/10/2020 | [NT] | [NT] | [NT] | [NT] | 08/10/2020 | [NT] | |
| Arsenic - Dissolved | mg/L | 0.05 | Metals-020 | <0.05 | [NT] | [NT] | [NT] | [NT] | 115 | [NT] | |
| Cadmium - Dissolved | mg/L | 0.01 | Metals-020 | <0.01 | [NT] | [NT] | [NT] | [NT] | 108 | [NT] | |
| Chromium - Dissolved | mg/L | 0.01 | Metals-020 | <0.01 | [NT] | [NT] | [NT] | [NT] | 109 | [NT] | |
| Copper - Dissolved | mg/L | 0.01 | Metals-020 | <0.01 | [NT] | [NT] | [NT] | [NT] | 110 | [NT] | |
| Lead - Dissolved | mg/L | 0.03 | Metals-020 | <0.03 | [NT] | [NT] | [NT] | [NT] | 114 | [NT] | |
| Mercury - Dissolved | mg/L | 0.0005 | Metals-021 | <0.0005 | [NT] | [NT] | [NT] | [NT] | 113 | [NT] | |
| Nickel - Dissolved | mg/L | 0.02 | Metals-020 | <0.02 | [NT] | [NT] | [NT] | [NT] | 115 | [NT] | |
| Zinc - Dissolved | mg/L | 0.02 | Metals-020 | <0.02 | [NT] | [NT] | [NT] | [NT] | 116 | [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. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil:

- The laboratory RPD acceptance criteria has been exceeded for 252698-29 for Cu, Pb & Zn. Therefore a triplicate result has been issued as laboratory sample number 252698-95.

-# High spike recovery was obtained for this sample. Sample matrix interference is suspected. However, an acceptable recovery was obtained for the LCS

FOREIGN MATERIAL IS DETERMINED

#27,34,36,42,49,52,53,59:BITUMEN/ASPHALT

#30:RUBBER

Asbestos: A portion of the supplied samples were sub-sampled for asbestos analysis according to Envirolab procedures.

We cannot guarantee that these sub-samples are indicative of the entire sample.

Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples requested for asbestos testing were sub-sampled from jars provided by the client.

Ming To

From: Lochlan Browne <Lochlan.Browne@edp-au.com>
Sent: Tuesday, 20 October 2020 5:08 PM
To: Ken Nguyen; Samplereceipt
Cc: Ryan Jacka; Matthew Konza
Subject: RE: Results for Registration 252698 S-02188.001

Follow Up Flag: Follow up
Flag Status: Flagged

Ref : 252698-A
TAT : Standard
Due : 27/10/2020 M7.

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

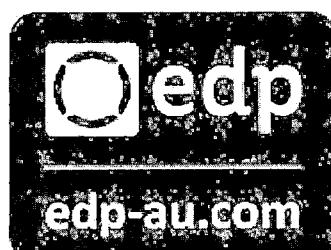
Hi Ken,

Could I please schedule in Chromium Reducible Sulfur Suite testing for the following samples on standard TAT:

- 252698-8 / S-02188.001-TP03_1.2
- 252698-10 / S-02188.001-TP04_1.2
- 252698-13 / S-02188.001-TP05_1.4
- 252698-14 / S-02188.001-BH01_2.0
- 252698-15 / S-02188.001-BH01_3.0
- 252698-16 / S-02188.001-BH01_4.0
- 252698-17 / S-02188.001-BH01_5.0
- 252698-19 / S-02188.001-TP06_1.0
- 252698-23 / S-02188.001-BH05_2.0
- 252698-24 / S-02188.001-BH05_3.0
- 252698-25 / S-02188.001-BH05_4.0
- 252698-26 / S-02188.001-BH05-5.0
- 252698-32 / S-02188.001-TP09_1.5
- 252698-35 / S-02188.001-TP10_1.0
- 252698-54 / S-02188.001-TP15_1.4
- 252698-55 / S-02188.001-BH03_2.0
- 252698-56 / S-02188.001-BH03_3.0
- 252698-57 / S-02188.001-BH03_4.0
- 252698-58 / S-02188.001-BH03_5.0
- 252698-63 / S-02188.001-BH04_3.0
- 252698-64 / S-02188.001-BH04_4.0
- 252698-71 / S-02188.001-TP18_1.0

Any problems please let me know.

Thanks,



Lochlan Browne
HSE Consultant

M: +61 432 226 858 | P: +61 2 8484 5810
E: lochlan.browne@edp-au.com | [Connect on LinkedIn](#)
Our Office: Suite 101, 52 Atchison Street,
St Leonards, NSW 2065, Australia

SAMPLE RECEIPT ADVICE

Client Details

| | |
|-----------|-------------------------|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |

Sample Login Details

| | |
|--------------------------------------|-------------|
| Your reference | S-02188.001 |
| Envirolab Reference | 252698-A |
| Date Sample Received | 02/10/2020 |
| Date Instructions Received | 27/10/2020 |
| Date Results Expected to be Reported | 27/10/2020 |

Sample Condition

| | |
|--|---------------------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 93 soil, 1 material |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 12.9 |
| Cooling Method | Ice |
| Sampling Date Provided | YES |

Comments

Nil

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|------------------------------|--------------------------------|
| Phone: 02 9910 6200 | Phone: 02 9910 6200 |
| Fax: 02 9910 6201 | Fax: 02 9910 6201 |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:

| Sample ID | Chromium Suite | On Hold |
|--------------------------|----------------|---------|
| S-02188.001-TP01_0.1-0.1 | ✓ | |
| S-02188.001-TP01_1.0-1 | ✓ | |
| S-02188.001-TP02_0.1-0.1 | ✓ | |
| S-02188.001-TP02_0.5-0.5 | ✓ | |
| S-02188.001-TP02_0.9-0.9 | ✓ | |
| S-02188.001-TP03_0.1-0.1 | ✓ | |
| S-02188.001-TP03_1.0-1 | ✓ | |
| S-02188.001-TP03_1.2-1.2 | ✓ | |
| S-02188.001-TP04_0.3-0.3 | ✓ | |
| S-02188.001-TP04_1.2-1.2 | ✓ | |
| S-02188.001-TP05_0.1-0.1 | ✓ | |
| S-02188.001-TP05_1.0-1 | ✓ | |
| S-02188.001-TP05_1.4-1.4 | ✓ | |
| S-02188.001-BH01_2.0-2 | ✓ | |
| S-02188.001-BH01_3.0-3 | ✓ | |
| S-02188.001-BH01_4.0-4 | ✓ | |
| S-02188.001-BH01_5.0-5 | ✓ | |
| S-02188.001-TP06_0.1-0.1 | ✓ | |
| S-02188.001-TP06_1.0-1 | ✓ | |
| S-02188.001-TP07_0.1-0.1 | ✓ | |
| S-02188.001-TP07_1.0-1 | ✓ | |
| S-02188.001-TP07_1.3-1.3 | ✓ | |
| S-02188.001-BH05_2.0-2 | ✓ | |
| S-02188.001-BH05_3.0-3 | ✓ | |
| S-02188.001-BH05_4.0-4 | ✓ | |
| S-02188.001-BH05_5.0-5 | ✓ | |
| S-02188.001-TP08_0.2-0.2 | ✓ | |
| S-02188.001-TP08_1.0-1 | ✓ | |
| S-02188.001-TP08_1.2-1.2 | ✓ | |
| S-02188.001-TP09_0.1-0.1 | ✓ | |
| S-02188.001-TP09_1.0-1 | ✓ | |
| S-02188.001-TP09_1.5-1.5 | ✓ | |

| Sample ID | Chromium Suite | On Hold |
|--------------------------|----------------|---------|
| S-02188.001-TP10_0.2-0.2 | ✓ | |
| S-02188.001-TP10_0.9-0.9 | ✓ | |
| S-02188.001-TP10_1.0-1 | ✓ | |
| S-02188.001-TP11_0.1-0.1 | ✓ | |
| S-02188.001-TP11_1.0-1 | ✓ | |
| S-02188.001-TP11_1.2-1.2 | ✓ | |
| S-02188.001-TP12_0.2-0.2 | ✓ | |
| S-02188.001-TP12_1.0-1 | ✓ | |
| S-02188.001-TP12_1.3-1.3 | ✓ | |
| S-02188.001-TP13_0.3-0.3 | ✓ | |
| S-02188.001-TP13_1.0-1 | ✓ | |
| S-02188.001-TP13_1.3-1.3 | ✓ | |
| S-02188.001-BH02_2.0-2 | ✓ | |
| S-02188.001-BH02_3.0-3 | ✓ | |
| S-02188.001-BH02_4.0-4 | ✓ | |
| S-02188.001-BH02_5.0-5 | ✓ | |
| S-02188.001-TP14_0.3-0.3 | ✓ | |
| S-02188.001-TP14_1.0-1 | ✓ | |
| S-02188.001-TP14_1.2-1.2 | ✓ | |
| S-02188.001-TP15_0.1-0.1 | ✓ | |
| S-02188.001-TP15_1.0-1 | ✓ | |
| S-02188.001-TP15_1.4-1.4 | ✓ | |
| S-02188.001-BH03_2.0-2 | ✓ | |
| S-02188.001-BH03_3.0-3 | ✓ | |
| S-02188.001-BH03_4.0-4 | ✓ | |
| S-02188.001-BH03_5.0-5 | ✓ | |
| S-02188.001-TP16_0.1-0.1 | ✓ | |
| S-02188.001-TP16_1.0-1 | ✓ | |
| S-02188.001-TP16_1.2-1.2 | ✓ | |
| S-02188.001-BH04_2.0-2 | ✓ | |
| S-02188.001-BH04_3.0-3 | ✓ | |
| S-02188.001-BH04_4.0-4 | ✓ | |

| Sample ID | Chromium Suite | On Hold |
|--|----------------|---------|
| S-02188.001-BH04_5.0-5 | ✓ | |
| S-02188.001-TP17_0.1-0.1 | ✓ | |
| S-02188.001-TP17_0.5-0.5 | ✓ | |
| S-02188.001-TP17_1.1-1.1 | ✓ | |
| S-02188.001-TP18_0.1-0.1 | ✓ | |
| S-02188.001-TP18_0.5-0.5 | ✓ | |
| S-02188.001-TP18_1.0-1 | ✓ | |
| S-02188.001-TP19_0.1-0.1 | ✓ | |
| S-02188.001-TP19_0.3-0.3 | ✓ | |
| S-02188.001-TP19_0.5-0.5 | ✓ | |
| S-02188.001-TP19_1.5-1.5 | ✓ | |
| S-02188.001-TP20_0.1-0.1 | ✓ | |
| S-02188.001-TP20_1.0-1 | ✓ | |
| S-02188.001-TP20_1.5-1.5 | ✓ | |
| S-02188.001-AS001-0.5 | ✓ | |
| S-02188.001-QA01 | ✓ | |
| S-02188.001-QA03 | ✓ | |
| S-02188.001-QA05 | ✓ | |
| S-02188.001-QA07 | ✓ | |
| S-02188.001-QA09 | ✓ | |
| S-02188.001-QA10 | ✓ | |
| S-02188.001-RB01 | ✓ | |
| S-02188.001-RB02 | ✓ | |
| S-02188.001-TB01 | ✓ | |
| S-02188.001-TB02 | ✓ | |
| S-02188.001-TS01 | ✓ | |
| S-02188.001-TS02 | ✓ | |
| S-02188.001-TP04_1.0-1.0 | ✓ | |
| S-02188.001-TP14_0.3-0.3 | ✓ | |
| S-02188.001-TP14_1.0-1.0 | ✓ | |
| S-02188.001-TP08_1.2 - [TRIPPLICATE]-1.2 | ✓ | |

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.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 252698-A

Client Details

| | |
|------------------|--|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |
| Address | Suite 6/52 Atchison St, ST LEONARDS, NSW |

Sample Details

| | |
|---|---------------------|
| Your Reference | S-02188.001 |
| Number of Samples | 93 soil, 1 material |
| Date samples received | 02/10/2020 |
| Date completed instructions received | 27/10/2020 |

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.

Report Details

| | |
|---|------------|
| Date results requested by | 27/10/2020 |
| Date of Issue | 27/10/2020 |
| 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

Priya Samarawickrama, Senior Chemist

Authorised By



Nancy Zhang, Laboratory Manager

| Chromium Suite | | | | | | |
|-----------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-A-8 | 252698-A-10 | 252698-A-13 | 252698-A-14 | 252698-A-15 |
| Your Reference | UNITS | S-02188.001-TP03_1.2 | S-02188.001-TP04_1.2 | S-02188.001-TP05_1.4 | S-02188.001-BH01_2.0 | S-02188.001-BH01_3.0 |
| Depth | | 1.2 | 1.2 | 1.4 | 2 | 3 |
| Date Sampled | | 1/10/2020 | 1/10/2020 | 1/10/2020 | 2/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| Date analysed | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| pH _{kcl} | pH units | 5.8 | 4.5 | 5.6 | 4.1 | 4.1 |
| s-TAA pH 6.5 | %w/w S | <0.01 | 0.02 | <0.01 | 0.06 | 0.05 |
| TAA pH 6.5 | moles H ⁺ /t | <5 | 11 | 6 | 34 | 34 |
| Chromium Reducible Sulfur | %w/w | <0.005 | <0.005 | 0.009 | <0.005 | 0.005 |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | <3 | <3 | 5 | <3 | 3 |
| S _{HCl} | %w/w S | NA | <0.005 | NA | 0.009 | 0.013 |
| S _{KCl} | %w/w S | 0.005 | <0.005 | <0.005 | 0.006 | 0.008 |
| S _{NAS} | %w/w S | NA | <0.005 | NA | <0.005 | <0.005 |
| ANC _{BT} | % CaCO ₃ | NA | NA | NA | NA | NA |
| s-ANC _{BT} | %w/w S | NA | NA | NA | NA | NA |
| s-Net Acidity | %w/w S | 0.012 | 0.022 | 0.018 | 0.061 | 0.063 |
| a-Net Acidity | moles H ⁺ /t | 7.2 | 14 | 11 | 38 | 39 |
| Liming rate | kg CaCO ₃ /t | <0.75 | 1 | 0.8 | 3 | 3 |
| a-Net Acidity without ANCE | moles H ⁺ /t | 7.2 | 14 | 11 | 38 | 39 |
| Liming rate without ANCE | kg CaCO ₃ /t | <0.75 | 1.0 | 0.82 | 2.9 | 3.0 |
| s-Net Acidity without ANCE | %w/w S | 0.012 | 0.022 | 0.018 | 0.061 | 0.063 |

| Chromium Suite | | | | | | |
|-----------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-A-16 | 252698-A-17 | 252698-A-19 | 252698-A-23 | 252698-A-24 |
| Your Reference | UNITS | S-02188.001-BH01_4.0 | S-02188.001-BH01_5.0 | S-02188.001-TP06_1.0 | S-02188.001-BH05_2.0 | S-02188.001-BH05_3.0 |
| Depth | | 4 | 5 | 1 | 2 | 3 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 1/10/2020 | 2/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| Date analysed | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| pH _{kcl} | pH units | 4.5 | 4.8 | 4.0 | 5.8 | 5.8 |
| s-TAA pH 6.5 | %w/w S | 0.02 | <0.01 | 0.08 | <0.01 | <0.01 |
| TAA pH 6.5 | moles H ⁺ /t | 14 | <5 | 49 | <5 | <5 |
| Chromium Reducible Sulfur | %w/w | <0.005 | <0.005 | 0.005 | <0.005 | <0.005 |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | <3 | <3 | <3 | <3 | <3 |
| S _{HCl} | %w/w S | NA | NA | 0.016 | NA | NA |
| S _{KCl} | %w/w S | 0.007 | 0.007 | 0.006 | 0.005 | <0.005 |
| S _{NAS} | %w/w S | NA | NA | 0.010 | NA | NA |
| ANC _{BT} | % CaCO ₃ | NA | NA | NA | NA | NA |
| s-ANC _{BT} | %w/w S | NA | NA | NA | NA | NA |
| s-Net Acidity | %w/w S | 0.024 | 0.0080 | 0.093 | 0.0090 | 0.0060 |
| a-Net Acidity | moles H ⁺ /t | 15 | 5.2 | 58 | 5.7 | <5 |
| Liming rate | kg CaCO ₃ /t | 1 | <0.75 | 4 | <0.75 | <0.75 |
| a-Net Acidity without ANCE | moles H ⁺ /t | 15 | 5.2 | 58 | 5.7 | <5 |
| Liming rate without ANCE | kg CaCO ₃ /t | 1.1 | <0.75 | 4.3 | <0.75 | <0.75 |
| s-Net Acidity without ANCE | %w/w S | 0.024 | 0.0080 | 0.093 | 0.0090 | 0.0060 |

| Chromium Suite | | | | | | |
|-----------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-A-25 | 252698-A-26 | 252698-A-32 | 252698-A-35 | 252698-A-54 |
| Your Reference | UNITS | S-02188.001-BH05_4.0 | S-02188.001-BH05_5.0 | S-02188.001-TP09_1.5 | S-02188.001-TP10_1.0 | S-02188.001-TP15_1.4 |
| Depth | | 4 | 5 | 1.5 | 1 | 1.4 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 1/10/2020 | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| Date analysed | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| pH _{kcl} | pH units | 5.2 | 6.0 | 8.3 | 4.8 | 4.7 |
| s-TAA pH 6.5 | %w/w S | <0.01 | <0.01 | <0.01 | 0.03 | 0.03 |
| TAA pH 6.5 | moles H ⁺ /t | <5 | <5 | <5 | 17 | 20 |
| Chromium Reducible Sulfur | %w/w | <0.005 | <0.005 | 0.005 | 0.02 | 0.03 |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | <3 | <3 | <3 | 12 | 16 |
| S _{HCl} | %w/w S | NA | NA | NA | NA | NA |
| S _{KCl} | %w/w S | <0.005 | <0.005 | 0.015 | 0.007 | 0.008 |
| S _{NAS} | %w/w S | NA | NA | NA | NA | NA |
| ANC _{BT} | % CaCO ₃ | NA | NA | 1.1 | NA | NA |
| s-ANC _{BT} | %w/w S | NA | NA | 0.35 | NA | NA |
| s-Net Acidity | %w/w S | 0.0060 | <0.005 | <0.005 | 0.046 | 0.059 |
| a-Net Acidity | moles H ⁺ /t | <5 | <5 | <5 | 28 | 37 |
| Liming rate | kg CaCO ₃ /t | <0.75 | <0.75 | <0.75 | 2 | 3 |
| a-Net Acidity without ANCE | moles H ⁺ /t | <5 | <5 | <5 | 28 | 37 |
| Liming rate without ANCE | kg CaCO ₃ /t | <0.75 | <0.75 | <0.75 | 2.1 | 2.8 |
| s-Net Acidity without ANCE | %w/w S | 0.0060 | <0.005 | 0.0050 | 0.046 | 0.059 |

| Chromium Suite | | | | | | |
|-----------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Our Reference | | 252698-A-55 | 252698-A-56 | 252698-A-57 | 252698-A-58 | 252698-A-63 |
| Your Reference | UNITS | S-02188.001-BH03_2.0 | S-02188.001-BH03_3.0 | S-02188.001-BH03_4.0 | S-02188.001-BH03_5.0 | S-02188.001-BH04_3.0 |
| Depth | | 2 | 3 | 4 | 5 | 3 |
| Date Sampled | | 2/10/2020 | 2/10/2020 | 2/10/2020 | 2/10/2020 | 2/10/2020 |
| Type of sample | | soil | soil | soil | soil | soil |
| Date prepared | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| Date analysed | - | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 | 26/10/2020 |
| pH _{kcl} | pH units | 4.3 | 4.0 | 4.1 | 4.1 | 3.9 |
| s-TAA pH 6.5 | %w/w S | 0.03 | 0.07 | 0.06 | 0.08 | 0.13 |
| TAA pH 6.5 | moles H ⁺ /t | 18 | 42 | 39 | 46 | 80 |
| Chromium Reducible Sulfur | %w/w | 0.01 | 0.006 | 0.009 | 0.005 | <0.005 |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | 6 | 3 | 5 | 3 | <3 |
| S _{HCl} | %w/w S | 0.008 | 0.012 | 0.016 | 0.020 | 0.017 |
| S _{KCl} | %w/w S | 0.006 | 0.008 | 0.009 | 0.011 | 0.011 |
| S _{NAS} | %w/w S | <0.005 | <0.005 | 0.008 | 0.009 | 0.006 |
| ANC _{BT} | % CaCO ₃ | NA | NA | NA | NA | NA |
| s-ANC _{BT} | %w/w S | NA | NA | NA | NA | NA |
| s-Net Acidity | %w/w S | 0.040 | 0.077 | 0.078 | 0.089 | 0.14 |
| a-Net Acidity | moles H ⁺ /t | 25 | 48 | 49 | 56 | 86 |
| Liming rate | kg CaCO ₃ /t | 2 | 4 | 4 | 4 | 6 |
| a-Net Acidity without ANCE | moles H ⁺ /t | 25 | 48 | 49 | 56 | 86 |
| Liming rate without ANCE | kg CaCO ₃ /t | 1.9 | 3.6 | 3.7 | 4.2 | 6.5 |
| s-Net Acidity without ANCE | %w/w S | 0.040 | 0.077 | 0.078 | 0.089 | 0.14 |

| Chromium Suite | | | |
|-----------------------------|-------------------------|----------------------|----------------------|
| Our Reference | | 252698-A-64 | 252698-A-71 |
| Your Reference | UNITS | S-02188.001-BH04_4.0 | S-02188.001-TP18_1.0 |
| Depth | | 4 | 1 |
| Date Sampled | | 2/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil |
| Date prepared | - | 26/10/2020 | 26/10/2020 |
| Date analysed | - | 26/10/2020 | 26/10/2020 |
| pH _{kcl} | pH units | 4.7 | 4.3 |
| s-TAA pH 6.5 | %w/w S | 0.02 | 0.06 |
| TAA pH 6.5 | moles H ⁺ /t | 12 | 39 |
| Chromium Reducible Sulfur | %w/w | <0.005 | 0.01 |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | <3 | 7 |
| S _{HCl} | %w/w S | NA | 0.013 |
| S _{KCl} | %w/w S | 0.005 | <0.005 |
| S _{NAS} | %w/w S | NA | 0.009 |
| ANC _{BT} | % CaCO ₃ | NA | NA |
| s-ANC _{BT} | %w/w S | NA | NA |
| s-Net Acidity | %w/w S | 0.023 | 0.083 |
| a-Net Acidity | moles H ⁺ /t | 14 | 52 |
| Liming rate | kg CaCO ₃ /t | 1 | 4 |
| a-Net Acidity without ANCE | moles H ⁺ /t | 14 | 52 |
| Liming rate without ANCE | kg CaCO ₃ /t | 1.1 | 3.9 |
| s-Net Acidity without ANCE | %w/w S | 0.023 | 0.083 |

| Method ID | Methodology Summary |
|------------------|---|
| Inorg-068 | Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Based on Acid Sulfate Soils Laboratory Methods Guidelines, Version 2.1 - June 2004. |

| QUALITY CONTROL: Chromium Suite | | | | | Duplicate | | | Spike Recovery % | | |
|---------------------------------|-------------------------|-------|-----------|------------|-----------|------------|------------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 26/10/2020 | 8 | 26/10/2020 | 26/10/2020 | | 26/10/2020 | [NT] |
| Date analysed | - | | | 26/10/2020 | 8 | 26/10/2020 | 26/10/2020 | | 26/10/2020 | [NT] |
| pH _{kcl} | pH units | | Inorg-068 | [NT] | 8 | 5.8 | 5.8 | 0 | 100 | [NT] |
| s-TAA pH 6.5 | %w/w S | 0.01 | Inorg-068 | <0.01 | 8 | <0.01 | <0.01 | 0 | [NT] | [NT] |
| TAA pH 6.5 | moles H ⁺ /t | 5 | Inorg-068 | <5 | 8 | <5 | <5 | 0 | 105 | [NT] |
| Chromium Reducible Sulfur | %w/w | 0.005 | Inorg-068 | <0.005 | 8 | <0.005 | <0.005 | 0 | [NT] | [NT] |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | 3 | Inorg-068 | <3 | 8 | <3 | <3 | 0 | 112 | [NT] |
| S _{HCl} | %w/w S | 0.005 | Inorg-068 | <0.005 | 8 | NA | NA | | [NT] | [NT] |
| S _{KCl} | %w/w S | 0.005 | Inorg-068 | <0.005 | 8 | 0.005 | <0.005 | 0 | [NT] | [NT] |
| S _{NAS} | %w/w S | 0.005 | Inorg-068 | <0.005 | 8 | NA | NA | | [NT] | [NT] |
| ANC _{BT} | % CaCO ₃ | 0.05 | Inorg-068 | <0.05 | 8 | NA | NA | | [NT] | [NT] |
| s-ANC _{BT} | %w/w S | 0.05 | Inorg-068 | <0.05 | 8 | NA | NA | | [NT] | [NT] |
| s-Net Acidity | %w/w S | 0.005 | Inorg-068 | <0.005 | 8 | 0.012 | 0.0080 | 40 | [NT] | [NT] |
| a-Net Acidity | moles H ⁺ /t | 5 | Inorg-068 | <5 | 8 | 7.2 | 5.2 | 32 | [NT] | [NT] |
| Liming rate | kg CaCO ₃ /t | 0.75 | Inorg-068 | <0.75 | 8 | <0.75 | <0.75 | 0 | [NT] | [NT] |
| a-Net Acidity without ANCE | moles H ⁺ /t | 5 | Inorg-068 | <5 | 8 | 7.2 | 5.2 | 32 | [NT] | [NT] |
| Liming rate without ANCE | kg CaCO ₃ /t | 0.75 | Inorg-068 | <0.75 | 8 | <0.75 | <0.75 | 0 | [NT] | [NT] |
| s-Net Acidity without ANCE | %w/w S | 0.005 | Inorg-068 | <0.005 | 8 | 0.012 | 0.0080 | 40 | [NT] | [NT] |

| QUALITY CONTROL: Chromium Suite | | | | | Duplicate | | | Spike Recovery % | | |
|---------------------------------|-------------------------|-------|-----------|-------|-----------|------------|------------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-2 | [NT] |
| Date prepared | - | | | [NT] | 26 | 26/10/2020 | 26/10/2020 | | 26/10/2020 | [NT] |
| Date analysed | - | | | [NT] | 26 | 26/10/2020 | 26/10/2020 | | 26/10/2020 | [NT] |
| pH _{kcl} | pH units | | Inorg-068 | [NT] | 26 | 6.0 | 6.0 | 0 | 99 | [NT] |
| s-TAA pH 6.5 | %w/w S | 0.01 | Inorg-068 | [NT] | 26 | <0.01 | <0.01 | 0 | [NT] | [NT] |
| TAA pH 6.5 | moles H ⁺ /t | 5 | Inorg-068 | [NT] | 26 | <5 | <5 | 0 | 95 | [NT] |
| Chromium Reducible Sulfur | %w/w | 0.005 | Inorg-068 | [NT] | 26 | <0.005 | <0.005 | 0 | [NT] | [NT] |
| a-Chromium Reducible Sulfur | moles H ⁺ /t | 3 | Inorg-068 | [NT] | 26 | <3 | <3 | 0 | 112 | [NT] |
| S _{HCl} | %w/w S | 0.005 | Inorg-068 | [NT] | 26 | NA | NA | | [NT] | [NT] |
| S _{KCl} | %w/w S | 0.005 | Inorg-068 | [NT] | 26 | <0.005 | <0.005 | 0 | [NT] | [NT] |
| S _{NAS} | %w/w S | 0.005 | Inorg-068 | [NT] | 26 | NA | NA | | [NT] | [NT] |
| ANC _{BT} | % CaCO ₃ | 0.05 | Inorg-068 | [NT] | 26 | NA | NA | | [NT] | [NT] |
| s-ANC _{BT} | %w/w S | 0.05 | Inorg-068 | [NT] | 26 | NA | NA | | [NT] | [NT] |
| s-Net Acidity | %w/w S | 0.005 | Inorg-068 | [NT] | 26 | <0.005 | 0.0050 | 0 | [NT] | [NT] |
| a-Net Acidity | moles H ⁺ /t | 5 | Inorg-068 | [NT] | 26 | <5 | <5 | 0 | [NT] | [NT] |
| Liming rate | kg CaCO ₃ /t | 0.75 | Inorg-068 | [NT] | 26 | <0.75 | <0.75 | 0 | [NT] | [NT] |
| a-Net Acidity without ANCE | moles H ⁺ /t | 5 | Inorg-068 | [NT] | 26 | <5 | <5 | 0 | [NT] | [NT] |
| Liming rate without ANCE | kg CaCO ₃ /t | 0.75 | Inorg-068 | [NT] | 26 | <0.75 | <0.75 | 0 | [NT] | [NT] |
| s-Net Acidity without ANCE | %w/w S | 0.005 | Inorg-068 | [NT] | 26 | <0.005 | 0.0050 | 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. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Ming To

From: Lochlan Browne <Lochlan.Browne@edp-au.com>
Sent: Monday, 26 October 2020 4:33 PM
To: Ken Nguyen; Samplereceipt
Subject: RE: Results for Registration 252698 S-02188.001

Ref: 252698-B
TAT: Standard
Due: 02/11/2020 MZ

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

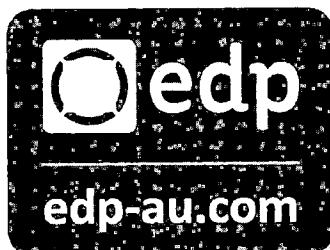
Hi Ken,

Could I please schedule in TCLP testing for the following samples on standard TAT:

- 252698-3 / S-02188.001-TP02_0.1 (nickel)
- 252698-6 / S-02188.001-TP03_0.1 (PAH)

Any problems please let me know.

Thanks,



Lochlan Browne
HSE Consultant

M: +61 432 226 858 | P: +61 2 8484 5810
E: lochlan.browne@edp-au.com | [Connect on LinkedIn](#)
Our Office: Suite 101, 52 Atchison Street,
St Leonards, NSW 2065, Australia

CLIENT CHOICE AWARDS
2020 WINNER beaton
BEST ENVIRONMENTAL FIRM (<\$30M REVENUE)



Please consider the environment before printing. The contents of this email are strictly private and confidential and are intended solely for the named addressee(s) only. If you are not the intended recipient, you should not copy it or use it for any purpose nor disclose its contents to any other person and you should return this message to the sender and delete it from your mailbox. The views and opinions expressed in this email do not necessarily represent those of EDP. Please note that whilst we do check for viruses, it is the responsibility of the recipient to scan all messages prior to opening them.

From: Ken Nguyen <KNguyen@envirolab.com.au>
Sent: Monday, 12 October 2020 4:54 PM
To: Lochlan Browne <Lochlan.Browne@edp-au.com>; Ryan Jacka <Ryan.Jacka@edp-au.com>; Matthew Konza <Matthew.Konza@edp-au.com>
Subject: Results for Registration 252698 S-02188.001

Please refer to attached for:
a copy of the Certificate of Analysis
a copy of the COC/paperwork received from you
an Excel or .csv file containing the results
a copy of the Invoice

SAMPLE RECEIPT ADVICE

Client Details

| | |
|------------------|-------------------------|
| Client | EDP Consultants Pty Ltd |
| Attention | Ryan Jacka |

Sample Login Details

| | |
|---|-------------|
| Your reference | S-02188.001 |
| Envirolab Reference | 252698-B |
| Date Sample Received | 02/10/2020 |
| Date Instructions Received | 26/10/2020 |
| Date Results Expected to be Reported | 02/11/2020 |

Sample Condition

| | |
|---|-------------------------|
| Samples received in appropriate condition for analysis | Holding time exceedance |
| No. of Samples Provided | 93 soil, 1 material |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 12.9 |
| Cooling Method | Ice |
| Sampling Date Provided | YES |

Comments

Holding time exceedance - PAH

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoice accordingly.

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|-------------------------------------|---------------------------------------|
| Phone: 02 9910 6200 | Phone: 02 9910 6200 |
| Fax: 02 9910 6201 | Fax: 02 9910 6201 |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benz(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrane - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAHs | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|---------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|---------------|---------------------------|----------------|---------|
| S-02188.001-TP01_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP01_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP02_0.1-0.1 | ✓ | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP02_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP02_0.9-0.9 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP03_0.1-0.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| S-02188.001-TP03_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP03_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP04_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP04_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP05_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP05_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP05_1.4-1.4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP06_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP06_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP07_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benzo(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|----------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-TP07_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP07_1.3-1.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP08_0.2-0.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP08_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP08_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP09_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP09_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP09_1.5-1.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP10_0.2-0.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP10_0.9-0.9 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP10_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP11_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP11_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP11_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP12_0.2-0.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP12_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benzo(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|----------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-TP12_1.3-1.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP13_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP13_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP13_1.3-1.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP14_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP14_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP14_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP15_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP15_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP15_1.4-1.4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP16_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP16_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benzo(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|----------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-TP16_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP17_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP17_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP17_1.1-1.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP18_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP18_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP18_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_1.5-1.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP20_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP20_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP20_1.5-1.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-AS001-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-QA01 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benzo(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|----------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-QA03 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA05 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA07 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA09 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA10 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-RB01 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-RB02 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TB01 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TB02 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TS01 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TS02 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP04_1.0-1.0 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP14_0.3-0.3 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP14_1.0-1.0 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP08_1.2 - [TRIPPLICATE]-1.2 | | | | | | | | | | | | | | | | | | ✓ | | |

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).

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 252698-B

Client Details

| | |
|------------------|--|
| Client | EDP Consultants Pty Ltd |
| Attention | Ryan Jacka |
| Address | Suite 6/52 Atchison St, ST LEONARDS, NSW |

Sample Details

| | |
|---|---------------------|
| Your Reference | S-02188.001 |
| Number of Samples | 93 soil, 1 material |
| Date samples received | 02/10/2020 |
| Date completed instructions received | 26/10/2020 |

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.

Report Details

| | |
|---|------------|
| Date results requested by | 02/11/2020 |
| Date of Issue | 02/11/2020 |
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| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | |

Results Approved By

Dragana Tomas, Senior Chemist
 Jaimie Loa-Kum-Cheung, Metals Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

| TCLP Preparation - Acid | | | |
|-------------------------------|----------|--------------------------|--------------------------|
| Our Reference | | 252698-B-3 | 252698-B-6 |
| Your Reference | UNITS | S-02188.001- TP02_0.1 | S-02188.001- TP03_0.1 |
| Depth | | 0.1 | 0.1 |
| Date Sampled | | 01/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil |
| pH of soil for fluid# determ. | pH units | 9.6 | 9.4 |
| pH of soil TCLP (after HCl) | pH units | 1.9 | 1.9 |
| Extraction fluid used | - | 1 | 1 |
| pH of final Leachate | pH units | 5.1 | 5.1 |

| PAHs in TCLP (USEPA 1311) | | |
|-----------------------------------|-------|--------------------------------|
| Our Reference | UNITS | 252698-B-6 |
| Your Reference | | S-02188.001- TP03_01 0.1 |
| Depth | | 1/10/2020 |
| Date Sampled | | soil |
| Type of sample | | |
| Date extracted | - | 28/10/2020 |
| Date analysed | - | 28/10/2020 |
| Naphthalene in TCLP | mg/L | <0.001 |
| Acenaphthylene in TCLP | mg/L | <0.001 |
| Acenaphthene in TCLP | mg/L | <0.001 |
| Fluorene in TCLP | mg/L | <0.001 |
| Phenanthrene in TCLP | mg/L | <0.001 |
| Anthracene in TCLP | mg/L | <0.001 |
| Fluoranthene in TCLP | mg/L | <0.001 |
| Pyrene in TCLP | mg/L | <0.001 |
| Benzo(a)anthracene in TCLP | mg/L | <0.001 |
| Chrysene in TCLP | mg/L | <0.001 |
| Benzo(bjk)fluoranthene in TCLP | mg/L | <0.002 |
| Benzo(a)pyrene in TCLP | mg/L | <0.001 |
| Indeno(1,2,3-c,d)pyrene - TCLP | mg/L | <0.001 |
| Dibenzo(a,h)anthracene in TCLP | mg/L | <0.001 |
| Benzo(g,h,i)perylene in TCLP | mg/L | <0.001 |
| Total +ve PAH's | mg/L | NIL (+)VE |
| Surrogate <i>p</i> -Terphenyl-d14 | % | 94 |

| Metals in TCLP USEPA1311 | | |
|---------------------------------|-------|---------------------------------|
| Our Reference | | 252698-B-3 |
| Your Reference | UNITS | S-02188.001- TP02_0.1 0.1 |
| Depth | | 01/10/2020 |
| Date Sampled | | soil |
| Type of sample | | |
| Date extracted | - | 29/10/2020 |
| Date analysed | - | 29/10/2020 |
| Nickel in TCLP | mg/L | 0.03 |

| Method ID | Methodology Summary |
|--------------------|---|
| EXTRACT.7 | Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311. |
| 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 in house method INORG-004. Please note that the mass used may be scaled down from the default based on sample mass available. |
| Metals-020 ICP-AES | Determination of various metals by ICP-AES. |
| Org-022/025 | Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS. |

| QUALITY CONTROL: PAHs in TCLP (USEPA 1311) | | | | | | Duplicate | | | Spike Recovery % | |
|--|-------|-------|-------------|------------|------|-----------|------|------|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W1 | [NT] |
| Date extracted | - | | | 28/10/2020 | [NT] | [NT] | [NT] | [NT] | 28/10/2020 | [NT] |
| Date analysed | - | | | 28/10/2020 | [NT] | [NT] | [NT] | [NT] | 28/10/2020 | [NT] |
| Naphthalene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 104 | [NT] |
| Acenaphthylene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Acenaphthene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |
| Fluorene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 116 | [NT] |
| Phenanthrene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 118 | [NT] |
| Anthracene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Fluoranthene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 112 | [NT] |
| Pyrene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 116 | [NT] |
| Benzo(a)anthracene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Chrysene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 134 | [NT] |
| Benzo(bjk)fluoranthene in TCLP | mg/L | 0.002 | Org-022/025 | <0.002 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(a)pyrene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 112 | [NT] |
| Indeno(1,2,3-c,d)pyrene - TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Dibenzo(a,h)anthracene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(g,h,i)perylene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | 103 | [NT] | [NT] | [NT] | [NT] | 92 | [NT] |

| QUALITY CONTROL: Metals in TCLP USEPA1311 | | | | | | Duplicate | | | Spike Recovery % | | |
|---|-------|------|--------------------|------------|------|-----------|------|------|------------------|------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W1 | [NT] | |
| Date extracted | - | | | 29/10/2020 | [NT] | [NT] | [NT] | [NT] | 29/10/2020 | [NT] | |
| Date analysed | - | | | 29/10/2020 | [NT] | [NT] | [NT] | [NT] | 29/10/2020 | [NT] | |
| Nickel in TCLP | mg/L | 0.02 | Metals-020 ICP-AES | <0.02 | [NT] | [NT] | [NT] | [NT] | 100 | [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. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Andrew (Fitzy) Fitzsimons

From: Lochlan Browne <Lochlan.Browne@edp-au.com>
Sent: Tuesday, 27 October 2020 12:14 PM
To: Simon Song
Cc: Samplereceipt
Subject: RE: Sample Receipt for 252698-B S-02188.001

252698-C

Due: 3/11/20

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

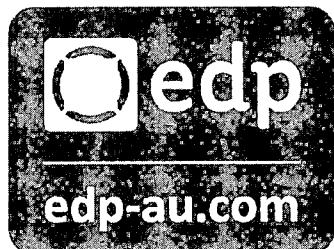
Hi Simon,

Could I please also add TCLP testing for the following samples on standard TAT:

- 252698-72 / S-02188.001-TP19_0.1 (nickel)
- 252698-74 / S-02188.001-TP19_0.5 (PAH)

Any problems please let me know.

Thanks,



Lochlan Browne
HSE Consultant

M: +61 432 226 858 | P: +61 2 8484 5810
E: lochlan.browne@edp-au.com | [Connect on LinkedIn](#)
Our Office: Suite 101, 52 Atchison Street,
St Leonards, NSW 2065, Australia

CLIENT CHOICE AWARDS
2020 WINNER beaton nab
BEST ENVIRONMENTAL FIRM (<\$30M REVENUE)



Please consider the environment before printing. The contents of this email are strictly private and confidential and are intended solely for the named addressee(s) only. If you are not the intended recipient, you should not copy it or use it for any purpose nor disclose its contents to any other person and you should return this message to the sender and delete it from your mailbox. The views and opinions expressed in this email do not necessarily represent those of EDP. Please note that whilst we do check for viruses, it is the responsibility of the recipient to scan all messages prior to opening them.

From: Simon Song <SSong@envirolab.com.au>
Sent: Monday, 26 October 2020 6:00 PM
To: Lochlan Browne <Lochlan.Browne@edp-au.com>; Ryan Jacka <Ryan.Jacka@edp-au.com>; Matthew Konza <Matthew.Konza@edp-au.com>
Subject: Sample Receipt for 252698-B S-02188.001

Please refer to attached for:
a copy of the COC/paperwork received from you
a copy of our Sample Receipt Advice (SRA)
Please open and read the SRA as it contains important information.

SAMPLE RECEIPT ADVICE

Client Details

| | |
|-----------|-------------------------|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |

Sample Login Details

| | |
|--------------------------------------|-------------|
| Your reference | S-02188.001 |
| Envirolab Reference | 252698-C |
| Date Sample Received | 02/10/2020 |
| Date Instructions Received | 27/10/2020 |
| Date Results Expected to be Reported | 03/11/2020 |

Sample Condition

| | |
|--|---------------------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 93 soil, 1 material |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 12.9 |
| Cooling Method | Ice |
| Sampling Date Provided | YES |

Comments

Nil

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|------------------------------|--------------------------------|
| Phone: 02 9910 6200 | Phone: 02 9910 6200 |
| Fax: 02 9910 6201 | Fax: 02 9910 6201 |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benz(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrane - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAHs | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|---------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|---------------|---------------------------|----------------|---------|
| S-02188.001-TP01_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP01_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP02_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP02_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP02_0.9-0.9 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP03_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP03_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP03_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP04_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP04_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP05_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP05_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP05_1.4-1.4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH01_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP06_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP06_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP07_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benzo(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|----------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-TP07_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP07_1.3-1.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH05_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP08_0.2-0.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP08_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP08_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP09_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP09_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP09_1.5-1.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP10_0.2-0.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP10_0.9-0.9 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP10_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP11_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP11_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP11_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP12_0.2-0.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP12_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |

Sample ID

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benzo(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|----------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-TP12_1.3-1.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP13_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP13_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP13_1.3-1.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH02_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP14_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP14_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP14_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP15_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP15_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP15_1.4-1.4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH03_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP16_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP16_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benz(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--------------------------|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|---------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-TP16_1.2-1.2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_2.0-2 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_3.0-3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_4.0-4 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-BH04_5.0-5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP17_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP17_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP17_1.1-1.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP18_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP18_0.5-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP18_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_0.1-0.1 | ✓ | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_0.3-0.3 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP19_0.5-0.5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| S-02188.001-TP19_1.5-1.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP20_0.1-0.1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP20_1.0-1 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-TP20_1.5-1.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-AS001-0.5 | | | | | | | | | | | | | | | | | | | ✓ | |
| S-02188.001-QA01 | | | | | | | | | | | | | | | | | | | ✓ | |

| Sample ID | TCLP Preparation - Acid | Naphthalene in TCLP | Acenaphthylene in TCLP | Acenaphthene in TCLP | Fluorene in TCLP | Phenanthrene in TCLP | Anthracene in TCLP | Fluoranthene in TCLP | Pyrene in TCLP | Benz(a)anthracene in TCLP | Chrysene in TCLP | Benzo(b)fluoranthene in TCLP | Benzo(a)pyrene in TCLP | Indeno(1,2,3-c,d)pyrene - TCLP | Dibenz(a,h)anthracene in TCLP | Benzo(g,h,i)perylene in TCLP | Total +vePAH's | Surrogate p-Terphenyl-d14 | Nickel in TCLP | On Hold |
|--|-------------------------|---------------------|------------------------|----------------------|------------------|----------------------|--------------------|----------------------|----------------|---------------------------|------------------|------------------------------|------------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------------|----------------|---------|
| S-02188.001-QA03 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA05 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA07 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA09 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-QA10 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-RB01 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-RB02 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TB01 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TB02 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TS01 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TS02 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP04_1.0-1.0 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP14_0.3-0.3 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP14_1.0-1.0 | | | | | | | | | | | | | | | | | | ✓ | | |
| S-02188.001-TP08_1.2 - [TRIPPLICATE]-1.2 | | | | | | | | | | | | | | | | | | ✓ | | |

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).

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 252698-C

Client Details

| | |
|------------------|--|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |
| Address | Suite 6/52 Atchison St, ST LEONARDS, NSW |

Sample Details

| | |
|---|---------------------|
| Your Reference | S-02188.001 |
| Number of Samples | 93 soil, 1 material |
| Date samples received | 02/10/2020 |
| Date completed instructions received | 27/10/2020 |

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.

Report Details

| | |
|---|------------|
| Date results requested by | 03/11/2020 |
| Date of Issue | 02/11/2020 |
| 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

Dragana Tomas, Senior Chemist
 Jaimie Loa-Kum-Cheung, Metals Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

| TCLP Preparation - Acid | | | |
|-------------------------------|----------|--------------------------|--------------------------|
| Our Reference | | 252698-C-72 | 252698-C-74 |
| Your Reference | UNITS | S-02188.001- TP19_0.1 | S-02188.001- TP19_0.5 |
| Depth | | 0.1 | 0.5 |
| Date Sampled | | 1/10/2020 | 1/10/2020 |
| Type of sample | | soil | soil |
| pH of soil for fluid# determ. | pH units | 9.9 | 9.5 |
| pH of soil TCLP (after HCl) | pH units | 2.3 | 1.9 |
| Extraction fluid used | - | 1 | 1 |
| pH of final Leachate | pH units | 5.9 | 5.3 |

| PAHs in TCLP (USEPA 1311) | | |
|-----------------------------------|-------|--------------------------|
| Our Reference | UNITS | 252698-C-74 |
| Your Reference | | S-02188.001- TP19_0.5 |
| Depth | | 0.5 |
| Date Sampled | | 1/10/2020 |
| Type of sample | | soil |
| Date extracted | - | 28/10/2020 |
| Date analysed | - | 28/10/2020 |
| Naphthalene in TCLP | mg/L | <0.001 |
| Acenaphthylene in TCLP | mg/L | <0.001 |
| Acenaphthene in TCLP | mg/L | <0.001 |
| Fluorene in TCLP | mg/L | <0.001 |
| Phenanthrene in TCLP | mg/L | <0.001 |
| Anthracene in TCLP | mg/L | <0.001 |
| Fluoranthene in TCLP | mg/L | <0.001 |
| Pyrene in TCLP | mg/L | <0.001 |
| Benzo(a)anthracene in TCLP | mg/L | <0.001 |
| Chrysene in TCLP | mg/L | <0.001 |
| Benzo(bjk)fluoranthene in TCLP | mg/L | <0.002 |
| Benzo(a)pyrene in TCLP | mg/L | <0.001 |
| Indeno(1,2,3-c,d)pyrene - TCLP | mg/L | <0.001 |
| Dibenzo(a,h)anthracene in TCLP | mg/L | <0.001 |
| Benzo(g,h,i)perylene in TCLP | mg/L | <0.001 |
| Total +ve PAH's | mg/L | NIL (+)VE |
| Surrogate <i>p</i> -Terphenyl-d14 | % | 104 |

| Metals in TCLP USEPA1311 | | |
|---------------------------------|-------|---------------------------------|
| Our Reference | | 252698-C-72 |
| Your Reference | UNITS | S-02188.001- TP19_0.1 0.1 |
| Depth | | 1/10/2020 |
| Date Sampled | | soil |
| Type of sample | | |
| Date extracted | - | 29/10/2020 |
| Date analysed | - | 29/10/2020 |
| Nickel in TCLP | mg/L | <0.02 |

| Method ID | Methodology Summary |
|--------------------|---|
| EXTRACT.7 | Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311. |
| 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 in house method INORG-004. Please note that the mass used may be scaled down from the default based on sample mass available. |
| Metals-020 ICP-AES | Determination of various metals by ICP-AES. |
| Org-022/025 | Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS. |

| QUALITY CONTROL: PAHs in TCLP (USEPA 1311) | | | | | | | Duplicate | | Spike Recovery % | | |
|--|-------|-------|-------------|------------|------|------|-----------|------|------------------|-------------|--|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W2 | 252698-C-74 | |
| Date extracted | - | | | 28/10/2020 | [NT] | [NT] | [NT] | [NT] | 28/10/2020 | 28/10/2020 | |
| Date analysed | - | | | 28/10/2020 | [NT] | [NT] | [NT] | [NT] | 28/10/2020 | 28/10/2020 | |
| Naphthalene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 104 | 111 | |
| Acenaphthylene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Acenaphthene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 102 | 124 | |
| Fluorene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 116 | 117 | |
| Phenanthrene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 118 | 123 | |
| Anthracene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Fluoranthene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 112 | 120 | |
| Pyrene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 116 | 130 | |
| Benzo(a)anthracene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Chrysene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 134 | 114 | |
| Benzo(bjk)fluoranthene in TCLP | mg/L | 0.002 | Org-022/025 | <0.002 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Benzo(a)pyrene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | 112 | 127 | |
| Indeno(1,2,3-c,d)pyrene - TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Dibenzo(a,h)anthracene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Benzo(g,h,i)perylene in TCLP | mg/L | 0.001 | Org-022/025 | <0.001 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] | |
| Surrogate p-Terphenyl-d14 | % | | Org-022/025 | 103 | [NT] | [NT] | [NT] | [NT] | 92 | 90 | |

| QUALITY CONTROL: Metals in TCLP USEPA1311 | | | | | | | Duplicate | | Spike Recovery % | |
|---|-------|------|--------------------|------------|----|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W1 | [NT] |
| Date extracted | - | | | 29/10/2020 | 72 | 29/10/2020 | 29/10/2020 | | 29/10/2020 | [NT] |
| Date analysed | - | | | 29/10/2020 | 72 | 29/10/2020 | 29/10/2020 | | 29/10/2020 | [NT] |
| Nickel in TCLP | mg/L | 0.02 | Metals-020 ICP-AES | <0.02 | 72 | <0.02 | <0.02 | 0 | 100 | [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. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Ming To

From: Lochlan Browne <Lochlan.Browne@edp-au.com>
Sent: Thursday, 29 October 2020 2:44 PM
To: Simon Song; Samplereceipt
Subject: RE: Sample Receipt for 252698-C S-02188.001

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi Simon,

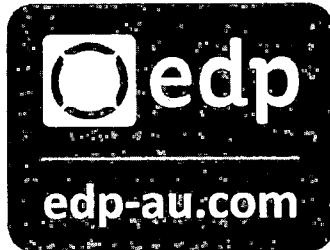
Could I please add another sample for TCLP analysis?

Ref: 252698-D
TAT: Standard
Due: 05/11/2020 M1

- 252698-44 / S-02188.001-TP13_1.3 (Lead)

Any problems please let me know.

Thanks



Lochlan Browne
HSE Consultant

M: +61 432 226 858 | P: +61 2 8484 5810
E: lochlan.browne@edp-au.com | [Connect on LinkedIn](#)
Our Office: Suite 101, 52 Atchison Street,
St Leonards, NSW 2065, Australia

CLIENT CHOICE AWARDS
2020 WINNER beaton
BEST ENVIRONMENTAL FIRM (<\$30M REVENUE)



Please consider the environment before printing. The contents of this email are strictly private and confidential and are intended solely for the named addressee(s) only. If you are not the intended recipient, you should not copy it or use it for any purpose nor disclose its contents to any other person and you should return this message to the sender and delete it from your mailbox. The views and opinions expressed in this email do not necessarily represent those of EDP. Please note that whilst we do check for viruses, it is the responsibility of the recipient to scan all messages prior to opening them.

From: Simon Song <SSong@envirolab.com.au>
Sent: Tuesday, 27 October 2020 4:01 PM
To: Lochlan Browne <Lochlan.Browne@edp-au.com>
Subject: Sample Receipt for 252698-C S-02188.001

Please refer to attached for:
a copy of the COC/paperwork received from you
a copy of our Sample Receipt Advice (SRA)
Please open and read the SRA as it contains important information.
Please let the lab know immediately if there are any issues.

Results will be available by 6.30pm on the date indicated.

PLEASE NOTE COMBO PRICES WILL ONLY APPLY IF COMBOS ARE SELECTED ON COC.

We have a new reporting format and would welcome your feedback. Sydney@envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

| | |
|------------------|-------------------------|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |

Sample Login Details

| | |
|---|-------------|
| Your reference | S-02188.001 |
| Envirolab Reference | 252698-D |
| Date Sample Received | 02/10/2020 |
| Date Instructions Received | 29/10/2020 |
| Date Results Expected to be Reported | 05/11/2020 |

Sample Condition

| | |
|---|---------------------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 93 soil, 1 material |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 12.9 |
| Cooling Method | Ice |
| Sampling Date Provided | YES |

Comments

| |
|-----|
| Nil |
|-----|

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|-------------------------------------|---------------------------------------|
| Phone: 02 9910 6200 | Phone: 02 9910 6200 |
| Fax: 02 9910 6201 | Fax: 02 9910 6201 |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:

| Sample ID | pH of soil for fluid#determ. | pH of soil TCLP (after HCl) | Extraction fluid used | pH of final Leachate | Lead in TCLP | On Hold |
|--------------------------|------------------------------|-----------------------------|-----------------------|----------------------|--------------|---------|
| S-02188.001-TP01_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP01_1.0-1 | | | | | ✓ | |
| S-02188.001-TP02_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP02_0.5-0.5 | | | | | ✓ | |
| S-02188.001-TP02_0.9-0.9 | | | | | ✓ | |
| S-02188.001-TP03_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP03_1.0-1 | | | | | ✓ | |
| S-02188.001-TP03_1.2-1.2 | | | | | ✓ | |
| S-02188.001-TP04_0.3-0.3 | | | | | ✓ | |
| S-02188.001-TP04_1.2-1.2 | | | | | ✓ | |
| S-02188.001-TP05_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP05_1.0-1 | | | | | ✓ | |
| S-02188.001-TP05_1.4-1.4 | | | | | ✓ | |
| S-02188.001-BH01_2.0-2 | | | | | ✓ | |
| S-02188.001-BH01_3.0-3 | | | | | ✓ | |
| S-02188.001-BH01_4.0-4 | | | | | ✓ | |
| S-02188.001-BH01_5.0-5 | | | | | ✓ | |
| S-02188.001-TP06_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP06_1.0-1 | | | | | ✓ | |
| S-02188.001-TP07_0.1-0.1 | | | | | ✓ | |

| Sample ID | pH of soil for fluid#determ. | pH of soil TCLP (after HCl) | Extraction fluid used | pH of final Leachate | Lead in TCLP | On Hold |
|--------------------------|------------------------------|-----------------------------|-----------------------|----------------------|--------------|---------|
| S-02188.001-TP07_1.0-1 | | | | | ✓ | |
| S-02188.001-TP07_1.3-1.3 | | | | | ✓ | |
| S-02188.001-BH05_2.0-2 | | | | | ✓ | |
| S-02188.001-BH05_3.0-3 | | | | | ✓ | |
| S-02188.001-BH05_4.0-4 | | | | | ✓ | |
| S-02188.001-BH05_5.0-5 | | | | | ✓ | |
| S-02188.001-TP08_0.2-0.2 | | | | | ✓ | |
| S-02188.001-TP08_1.0-1 | | | | | ✓ | |
| S-02188.001-TP08_1.2-1.2 | | | | | ✓ | |
| S-02188.001-TP09_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP09_1.0-1 | | | | | ✓ | |
| S-02188.001-TP09_1.5-1.5 | | | | | ✓ | |
| S-02188.001-TP10_0.2-0.2 | | | | | ✓ | |
| S-02188.001-TP10_0.9-0.9 | | | | | ✓ | |
| S-02188.001-TP10_1.0-1 | | | | | ✓ | |
| S-02188.001-TP11_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP11_1.0-1 | | | | | ✓ | |
| S-02188.001-TP11_1.2-1.2 | | | | | ✓ | |
| S-02188.001-TP12_0.2-0.2 | | | | | ✓ | |
| S-02188.001-TP12_1.0-1 | | | | | ✓ | |

Sample ID

| | pH of soil for fluid#determ. | pH of soil TCLP (after HCl) | Extraction fluid used | pH of final Leachate | Lead in TCLP | On Hold |
|--------------------------|------------------------------|-----------------------------|-----------------------|----------------------|--------------|---------|
| S-02188.001-TP12_1.3-1.3 | | | | | ✓ | |
| S-02188.001-TP13_0.3-0.3 | | | | | ✓ | |
| S-02188.001-TP13_1.0-1 | | | | | ✓ | |
| S-02188.001-TP13_1.3-1.3 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| S-02188.001-BH02_2.0-2 | | | | | ✓ | |
| S-02188.001-BH02_3.0-3 | | | | | ✓ | |
| S-02188.001-BH02_4.0-4 | | | | | ✓ | |
| S-02188.001-BH02_5.0-5 | | | | | ✓ | |
| S-02188.001-TP14_0.3-0.3 | | | | | ✓ | |
| S-02188.001-TP14_1.0-1 | | | | | ✓ | |
| S-02188.001-TP14_1.2-1.2 | | | | | ✓ | |
| S-02188.001-TP15_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP15_1.0-1 | | | | | ✓ | |
| S-02188.001-TP15_1.4-1.4 | | | | | ✓ | |
| S-02188.001-BH03_2.0-2 | | | | | ✓ | |
| S-02188.001-BH03_3.0-3 | | | | | ✓ | |
| S-02188.001-BH03_4.0-4 | | | | | ✓ | |
| S-02188.001-BH03_5.0-5 | | | | | ✓ | |
| S-02188.001-TP16_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP16_1.0-1 | | | | | ✓ | |

Sample ID

| | pH of soil for fluid#determ. | pH of soil TCLP (after HCl) | Extraction fluid used | pH of final Leachate | Lead in TCLP | On Hold |
|--------------------------|------------------------------|-----------------------------|-----------------------|----------------------|--------------|---------|
| S-02188.001-TP16_1.2-1.2 | | | | | ✓ | |
| S-02188.001-BH04_2.0-2 | | | | | ✓ | |
| S-02188.001-BH04_3.0-3 | | | | | ✓ | |
| S-02188.001-BH04_4.0-4 | | | | | ✓ | |
| S-02188.001-BH04_5.0-5 | | | | | ✓ | |
| S-02188.001-TP17_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP17_0.5-0.5 | | | | | ✓ | |
| S-02188.001-TP17_1.1-1.1 | | | | | ✓ | |
| S-02188.001-TP18_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP18_0.5-0.5 | | | | | ✓ | |
| S-02188.001-TP18_1.0-1 | | | | | ✓ | |
| S-02188.001-TP19_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP19_0.3-0.3 | | | | | ✓ | |
| S-02188.001-TP19_0.5-0.5 | | | | | ✓ | |
| S-02188.001-TP19_1.5-1.5 | | | | | ✓ | |
| S-02188.001-TP20_0.1-0.1 | | | | | ✓ | |
| S-02188.001-TP20_1.0-1 | | | | | ✓ | |
| S-02188.001-TP20_1.5-1.5 | | | | | ✓ | |
| S-02188.001-AS001-0.5 | | | | | ✓ | |
| S-02188.001-QA01 | | | | | ✓ | |

| Sample ID | pH of soil for fluid#determ. | pH of soil TCLP (after HCl) | Extraction fluid used | pH of final Leachate | Lead in TCLP | On Hold |
|--|------------------------------|-----------------------------|-----------------------|----------------------|--------------|---------|
| S-02188.001-QA03 | | | | | ✓ | |
| S-02188.001-QA05 | | | | | ✓ | |
| S-02188.001-QA07 | | | | | ✓ | |
| S-02188.001-QA09 | | | | | ✓ | |
| S-02188.001-QA10 | | | | | ✓ | |
| S-02188.001-RB01 | | | | | ✓ | |
| S-02188.001-RB02 | | | | | ✓ | |
| S-02188.001-TB01 | | | | | ✓ | |
| S-02188.001-TB02 | | | | | ✓ | |
| S-02188.001-TS01 | | | | | ✓ | |
| S-02188.001-TS02 | | | | | ✓ | |
| S-02188.001-TP04_1.0-1.0 | | | | | ✓ | |
| S-02188.001-TP14_0.3-0.3 | | | | | ✓ | |
| S-02188.001-TP14_1.0-1.0 | | | | | ✓ | |
| S-02188.001-TP08_1.2 - [TRIPPLICATE]-1.2 | | | | | ✓ | |

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).

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 252698-D

Client Details

| | |
|------------------|--|
| Client | EDP Consultants Pty Ltd |
| Attention | Lochlan Browne |
| Address | Suite 6/52 Atchison St, ST LEONARDS, NSW |

Sample Details

| | |
|---|---------------------|
| Your Reference | S-02188.001 |
| Number of Samples | 93 soil, 1 material |
| Date samples received | 02/10/2020 |
| Date completed instructions received | 29/10/2020 |

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.

Report Details

| | |
|---|------------|
| Date results requested by | 05/11/2020 |
| Date of Issue | 03/11/2020 |
| 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

Ken Nguyen, Reporting Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

| Metals in TCLP USEPA1311 | | |
|-------------------------------|----------|--------------------------|
| Our Reference | | 252698-D-44 |
| Your Reference | UNITS | S-02188.001- TP13_1.3 |
| Depth | | 1.3 |
| Date Sampled | | 1/10/2020 |
| Type of sample | | soil |
| Date extracted | - | 02/11/2020 |
| Date analysed | - | 02/11/2020 |
| pH of soil for fluid# determ. | pH units | 8.0 |
| pH of soil TCLP (after HCl) | pH units | 1.7 |
| Extraction fluid used | - | 1 |
| pH of final Leachate | pH units | 5.0 |
| Lead in TCLP | mg/L | <0.03 |

| Method ID | Methodology Summary |
|---------------------------|---|
| EXTRACT.7 | Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311. |
| 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 in house method INORG-004. Please note that the mass used may be scaled down from the default based on sample mass available. |
| Metals-020 ICP-AES | Determination of various metals by ICP-AES. |

| QUALITY CONTROL: Metals in TCLP USEPA1311 | | | | | | | Duplicate | | Spike Recovery % | |
|---|-------|------|--------------------|------------|------|------|-----------|------|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-W1 | [NT] |
| Date extracted | - | | | 02/11/2020 | [NT] | [NT] | [NT] | [NT] | 02/11/2020 | [NT] |
| Date analysed | - | | | 02/11/2020 | [NT] | [NT] | [NT] | [NT] | 02/11/2020 | [NT] |
| Lead in TCLP | mg/L | 0.03 | Metals-020 ICP-AES | <0.03 | [NT] | [NT] | [NT] | [NT] | 102 | [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. | |
| The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016. | |
| Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2 | |

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.



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