



Doyalson Wyee RSL Club Limited
care of
Urbis Pty Ltd

Detailed Site Investigation
49-68 Wentworth Avenue and
80, 90, 100 and 110 Pacific Highway
Doyalson, NSW

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JBS&G Australia Pty Ltd

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Abbreviations

Term	Definition
ABC	Average Background Concentrations
ACL	Added Contaminant Limit
ACM	Asbestos Containing Materials
AF/FA	Asbestos fines and fibrous asbestos
AEC	Areas of Potential Environmental Concern
AHD	Australian Height Datum
ASS	Acid Sulfate Soils
ASSMP	Acid Sulfate Soils Management Plan
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CLM Act	Contaminated Land Management Act 1997
CEC	Cation Exchangeable Capacity
COC	Chain of Custody
COPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DA	Development Application
DCP	Development Control Plan
DP	Deposited Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DNAPL	Dense Non Aqueous Phase Liquid
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EIL	Ecological Investigation Levels
EPA	NSW Environment Protection Authority
ESLs	Ecological Screening Levels
GILs	Groundwater Investigation Levels
ha	Hectare
HILs	Health Investigation Levels
HSLs	Health Screening Levels
IP	Interface Probe
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
LOR	Limit of Reporting
LNAPL	Light Aqueous Phase Liquid
MGA	Map Grid of Australia
NATA	National Accreditation Testing Authority
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
OCP	Organochlorine Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness and Sensitivity
PASS	Potential Acid Sulfate Soil
PCB	Polychlorinated Biphenyls
PID	Photoionisation Detector
POEO Act	Protection of Environment Operations Act 1997
PFAS	Polyfluorinated Alkyl Substances
PCR	Primary Contact Recreation
PSI	Preliminary site Investigation
QA/QC	Quality Assurance/Quality Control
RAP	Remedial Action Plan
RPD	Relative Percentage Difference
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Doyalson Wyee RSL Club Limited (the client) via Urbis Pty Ltd (Urbis) to undertake a detailed site investigation (DSI) associated with the property located at 49-68 Wentworth Avenue and 80, 90, 100 and 110 Pacific Highway, Doyalson, NSW (the site). The site is legally defined as Lots 1 to 9 Deposit Plan (DP) 215875, Lot 1 DP 503655, Lot 11 DP 2400685, Lot 49 DP 707586 and Lot 7 DP 240685 and occupies a total area of approximately 35 hectares (ha) as shown in **Figures 1 and 2**.

It is understood that the site is proposed to be redeveloped for mixed (residential, retail/commercial and recreational/open space) land uses, as shown on **Figure 3**. The site has previously been the subject of a preliminary site investigation (PSI) (GHD 2018¹) which identified several areas of environmental concern (AEC) and recommended that a DSI was undertaken.

The objectives of the DSI were to characterise potential contamination at the site, and to draw conclusions regarding the suitability of the land for the proposed residential land use.

The scope of works described herein included a review of historical reports, development of a Conceptual Site Model (CSM), advancement of systematic and targeted soil bores/test pits across the site at 165 locations, conversion of eight boreholes to groundwater monitoring wells, subsequent sampling of soil/sediment, groundwater and surface water and analysis for a range of Contaminants of Potential Concern (COPCs).

Based on the findings of the DSI, and subject to the Limitations in **Section 12**, the following conclusions were made:

- All soil samples submitted for analysis for a range of COPCs resulted in concentrations below the adopted health-based assessment criteria for the site, with the exception of non-friable asbestos fragments at sample locations TP35, TP35, TP36, and BH153 and inert anthropogenic materials in fill representing an aesthetic issue at sample locations TP08, TP10, TP23, TP24, TP35, TP36, TP144 and TP146. This material is considered to represent an aesthetic issue and a potential human health issue and requiring remediation or management;
- Carcinogenic polycyclic aromatic hydrocarbons (PAHs) were reported at a concentration that exceeded sensitive land use criteria in shallow fill just below the asphalt pavement of a car park at location BH001. This occurrence was likely associated with the asphalt pavement of the car park and would be removed as part of pavement demolition during future redevelopment works. It does not represent an unacceptable risk to current or future site users.
- PFAS has been reported in groundwater at monitoring wells MW01 and MW04. PFHxS+PFOS exceeded the adopted drinking water criterion at MW04. PFHxS+PFOS exceeded the adopted recreational water criterion (10 x drinking) at MW04
 - No PFAS was reported in soil at the site. Areas to the south and immediately east of site are designated PFAS investigation areas. It is considered that these PFAS occurrences in groundwater can be attributed to regional background levels. There is a reticulated drinking water supply and there is no known beneficial use of groundwater at or in the vicinity of the site. Given this, remediation/management of groundwater on site is not considered to be necessary;
- Analysis of surface water for a broad range of COPCs resulted in concentrations that were below the adopted health-based assessment criteria with the exception of some heavy

¹ Urbis Pty Ltd Doyalson Wyee RSL Structure Plan Preliminary Site Investigation Final Report. GHD Pty Ltd dated May 2018 (GHD 2018)

metal and ammonia. On this basis JBS&G recommend that during future redevelopment works appropriate management of surface water be undertaken;

- As discussed in **Section 10.1** asbestos has been identified within fill material in the north eastern portion of the sports field. This material is considered to represent an aesthetic issue and a potential human health issue requiring remediation or management;
- As discussed in **Section 10.4** inert anthropogenic material has been identified in fill material confined to the eastern portion of the sports field. This material is considered to represent an aesthetic issue requiring remediation or management; and
- Based on the findings of the investigations it is concluded the site can be made suitable for the proposed land use subject to remediation/management of non-friable (bonded) asbestos and aesthetic impacts.

Given the conclusions presented from the DSI, JBS&G recommend that;

- A Remedial Action Plan (RAP) be developed detailing the works required to manage and remove the identified asbestos and anthropogenic materials from soil in order to render the site suitable for proposed sensitive land, in accordance with SEPP 55 and other relevant guidelines; and
- Given the presence of asbestos in soils at three locations in a section of the site that is currently being used for recreational purposes (sports fields) it is recommended that a human health risk assessment is undertaken to determine whether the risk to site users under current land use is not unacceptable.

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Doyalson Wyee RSL Club Limited (the client) via Urbis Pty Ltd (Urbis) to undertake a detailed site investigation (DSI) associated with the property located at 49-68 Wentworth Avenue and 80, 90, 100 and 110 Pacific Highway, Doyalson, NSW (the site). The site location and layout are shown on **Figures 1** and **2** respectively. The site's legal identifiers and area is presented in **Table 2.1**.

The site is currently used for commercial (RSL Club and amenities) and recreational (sports fields and endurance course) land uses. Historically the site has been used for light agricultural/horticultural and forestry. The site is proposed to be redeveloped for mixed (residential, retail/commercial and recreational/open space) land uses, as shown on **Figure 3**.

The site has previously been the subject of a preliminary site investigation (PSI) (GHD 2018²) which identified several areas of environmental concern (AEC) and recommended that a DSI be undertaken to support the rezoning and redevelopment of the site.

This DSI report documents the findings of a desktop review and intrusive investigations, and has been developed in accordance with NEPC (2013³), OEH (2011⁴), EPA (2017⁵) and SEPP 55⁶ guidelines.

1.2 Objectives

The objectives of this DSI were to characterise potential contamination at the site, and to draw conclusions regarding the suitability of the site for mixed land uses, including residential with accessible soils, public open spaces, and commercial land uses (potentially including a childcare centre), or, to make recommendations to enable such conclusions to be made.

1.3 Scope of Works

The scope of works completed comprised:

- A review of GHD (2018);
- Development and documentation of a conceptual site model (CSM) based on the available information; and
- Advancement of systematic and targeted soil bores/test pits across accessible areas of the site at one hundred and sixty-five locations (refer to **Figure 4**);
- Comprehensive soil sampling for contaminants of potential concern (COPCs) from boreholes/test pits installed across the site;
- Analysis of selected soil samples at a National Association of Testing Authority (NATA) accredited laboratory for a range of COPCs including, but not limited to, heavy metals, polycyclic aromatic hydrocarbons (PAH), total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX) compounds, volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), per- and polyfluorinated alkyl substances (PFAS) and asbestos;

² Urbis Pty Ltd Doyalson Wyee RSL Structure Plan Preliminary Site Investigation Final Report. GHD Pty Ltd dated May 2018 (GHD 2018)

³ National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013). National Environment Protection Council (NEPC 2013)

⁴ Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites. NSW OEH, 2011 (OEH 2011).

⁵ Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd Edition). NSW EPA 2017 (EPA 2017)

⁶ State Environment Planning Policy No. 55 – Remediation of Land (SEPP 55)

- Assessment of soil physiochemical parameters (potential of hydrogen (pH) and cation exchange capacity (CEC)) to enable appropriate consideration of potential ecological risk;
- Conversion of eight selected boreholes (BH01/MW01, BH02/MW02, BH04/MW03, BH25/MW04, BH38/MW05, BH115/MW06, BH135/MW07 and BH70/MW08) into groundwater monitoring wells targeting AECs;
- Gauging, purging and sampling of installed groundwater monitoring well;
- Collection of surface water samples;
- Analysis of groundwater and surface water samples at a NATA accredited laboratory for a range of COPC including, but not limited to, heavy metals, TRH, BTEX, VOCs, PAHs, PFAS, electrical conductivity (EC), potential of hydrogen (pH), alkalinity, ammonia and nitrate; and
- Preparation of a DSI Report in general accordance with relevant EPA made or endorsed guidelines.

2. Site Condition and Surrounding Environment

2.1 Site Identification

The location of the site is shown in **Figure 1**, and the current layout is shown in **Figure 2**. The site details are summarised in **Table 2.1**.

Table 2.1: Summary of Site Details

Site Legal Identifier (as shown on Figure 2 and 3)	Lots 1 to 9 DP 215875, Lot 1 DP 503655, Lot 11 DP 2400685, Lot 49 DP 707586 and Lot 7 DP 240685
Site Address	Lots 1 to 9 DP 215875 – 49-65 Wentworth Avenue, Doyalson, NSW, 2262 Lot 1 DP 503655 – 80 Pacific Highway, Doyalson, NSW, 2262 Lot 11 DP 2400685 – 90 Pacific Highway, Doyalson, NSW, 2262 Lot 49 DP 707586 – 100 Pacific Highway, Doyalson, NSW, 2262 Lot 7 DP 240685 – 110 Pacific Highway, Doyalson, NSW, 2262
Site Area	34.78 ha
Local Government Authority	Central Coast Council (Council)
County/Parish	Munmorah
Site Geographic Coordinates (Map Grid of Australia (MGA) 56)	Refer to Figure 2
Registered Site Owner	Doyalson Wyee RSL Club Ltd
Current Zoning (Wyang Local Environmental Plan (LEP) 2013)	RE2 (Private Recreation) Lots 1 to 9 DP 215875, Lot 1 DP 503655 and Lot 11 DP 2400685 RU6 (Transition) Lot 49 DP 707586 and Lot 7 DP 240685
Previous Land Uses	Agriculture/horticulture, forestry, sports facilities
Current Land Uses	Commercial (RSL club and amenities) and Recreational (sports fields and endurance course)
Proposed Land Uses	Mixed-use Precinct (residential allotments, retail/commercial incl. childcare centre and recreational/open space)

2.2 Site Condition

A detailed site inspection was conducted on 8 August 2019 by Nathan Cussen and Ryan Lill, two of JBS&G's trained and experienced environmental consultants. A photolog of the site inspection and intrusive works is provided in **Appendix A**. The site layout and key features at the time of the detailed site inspection are shown on **Figure 2** and discussed herein. Discussions about various observed features were also held with client representatives during the site inspection.

The site comprises a generally square-shaped parcel of land situated to the east of the Pacific Highway and north of Wentworth Avenue. The site currently hosts the Doyalson Wyee RSL Club and amenities (approximately 3,000 m²), four full sized sports fields (5,600 m²), forestry and scrub (9,700 m²), one dam and a number of water bodies associated with an endurance course which occupies the majority of the northern lot at 110 Pacific Highway and extends into 100 Pacific Highway to the south.

There were several locations across the site with apparent or suspected filling (AEC 1). Significant cut and fill activities and suspected importation of fill had occurred within the sports fields areas in order to create the observed three tiers of levelled playing surfaces. It was observed that two distinct fill methods had been used; cut and fill of natural material in the two western sports fields and possible importation of fill in the south and eastern portion of the fields. In the eastern portion of the fields, the fill was observed to be approximately 4.4 m in depth (see borelog BH153, **Appendix F** and Photograph 53, **Appendix A**). Reworked natural embankments (approx. 2,050 m²) were identified around water obstacles associated with the endurance course.

Several stockpiles (AEC 2) of soil were located on site, predominately situated at 100 Pacific Highway within the centre of the lot. A large stockpile (Stockpile 1⁷, approx. 4,900 m³) was reportedly sourced from foundation excavations undertaken at the RSL in 2015 and contained some trace inclusions of bitumen, road base gravel and wood. Two stockpiles (Stockpiles 2 and 3⁸, approx. 700 m³) of soil / garden waste were situated adjacent the large stockpile, with another stockpile with anthropogenic inclusions situated adjacent Pacific Highway (Stockpile 4⁹, 129 m³). Materials associated with the endurance course (logs, tyres and discarded clothing) were present on the ground surface within 110 Pacific Highway. At the time of the detailed site inspection this material was in the process of being removed/cleaned up.

Chemical storage (AEC 3, small volumes of oil, lubrications and fuel used to service lawn mowers, and ground maintenance vehicle) was noted to the east of the RSL in the vehicle maintenance building. A waste oil separator and associated underground storage tank (UST) were situated to collect and process oils and fuel from the concrete hardstand vehicle wash bay. Fertilisers and chemicals were stored in unbunded steel sheds, no gross staining or odours were noted in this area.

Surface scaring, a power pole, igneous gravel driveway and the footprint of a potential former building (AEC 4) was present in the western extent of 110 Pacific Highway.

Evaporation trenches (AEC 5, grey water) were identified on the sports fields south of the changing rooms. Potential remains for this are to also contain septic tanks. Sewer lines appeared to run south east towards the site boundary and Denman Street (confirmed from Dial Before You Digs).

One dam and several water bodies (AEC 6) associated with the endurance course were noted on site. The dam was located in a low lying area in the central portion of site with minimal embankments. Other water body embankments appeared generally to be constructed of reworked natural material and no inclusions were observed. Several surface water bodies were also observed within the endurance course and were either constructed from reworked natural material or cut to below ground level.

It is understood that water for irrigation on site and used to maintain levels in endurance course waterbodies is sourced from reticulated town water supply and that routine testing of endurance course surface water bodies is undertaken. No onsite groundwater extraction for reticulation was present.

2.3 Surrounding Land Use

The current land uses of adjacent properties or properties across adjacent roadways are shown in **Figures 1** and **2** and summarised below.

- North – rural land and horticultural infrastructure, beyond which is an ash /slag disposal area associated with Lake Manning to the north west;
- East – decommissioned coal conveyor system, beyond this is bushland and Colongra Lake;
- South – Wentworth Avenue and residential houses, beyond which are rural residential properties. A Metro Petroleum service station and Doyalson Fire Station are located southwest on Pacific Highway; and
- West – Pacific Highway, beyond which is bushland and Wye Road.

⁷ Volume is an estimate calculated from plan area of 3,070 m² x average height of 1.6 m (3,070 x 1.6 = 4,912 m³)

⁸ Volume is an estimate calculated from plan area of 700 m² x average height of 1.0 m (700 x 1 = 700 m³)

⁹ Volume is an estimate calculated from plan area of 185 m² x average height of 0.7 m (185 x 0.7 = 129 m³)

2.4 Topography

Review of topographic information obtained from the Spatial Information Exchange Viewer (LPI 2019¹⁰) indicated that the elevation of the site ranges from approximately 20 m Australian Height Datum (AHD) in the south western portion to approximately 10 m AHD at the eastern boundary. The landscape is described as gently undulating rises with slope gradients < 10%.

Regionally, the topography slopes to the north and east, with the Pacific Highway to the immediate west of the site following a ridge between Mannering and Colongra lakes.

2.5 Geology and Soils

Reference to the 1:100,000 Gosford - Lake Macquarie geological map (Och et al, 2015¹¹), indicates that the site is predominantly underlain by the Munmorah Conglomerate which forms one of the lower stratigraphic units of the Narrabeen Group. The Munmorah Conglomerate is characterised by the presence of conglomerate, pebbly sandstones and grey-green shales. Quaternary alluvial deposits associated with the present lake system are found to the north east of the site consisting of sands, silts and gravels. The site lies within a mining subsidence district indicating potential for the land to sink due to historical extraction of coal.

Reference to the eSPADE NSW Soil and Land Information database (OEH 2019¹²) indicates that the site is situated predominantly on the Doyalson (do) soil landscape which consists of a dominant brown loose loamy sand with a coarse-grained texture. The soil profile consists of four main horizons with various properties as described in **Table 2.2**. The soil generally has high permeability but is susceptible to seasonal localised waterlogging.

Table 2.2: Soil Type Summary

Soil Horizon	Typical depth (m)	Soil Description Summary
Do1	0-0.1	Brown loose loamy sand, coarse grained, loose or gravelly, often water repellent
Do2	0.1-0.3	Yellowish brown clayey sand, hard-setting when dry, acidic (pH 4.5-5.5)
Do3	0.3-0.6	Bright yellow brown sandy clay loam, often orange mottled, porous, conglomerate and sandstone pebbles
Do4	0.6-1.1	Light grey sandy clay, can be acidic (pH 4.5-6.0)

2.6 Hydrology

The topography of the site suggests surface water could enter the site from the south/south west, however, the south western portion of site consists of an engineered carpark and surface water would likely be channelled into stormwater infrastructure and eventually toward Colongra Lake.

The site makes up part of the Colongra Lake catchment and is predominantly covered in grass and vegetation (trees, scrub). It is anticipated that water infiltration into the subsurface would be low to moderate when precipitation is light. Heavy or prolonged precipitation would quickly waterlog the soils at rates reflective of the Doyalson (do) soil landscape, and then runoff into drainage channels.

Manning Lake (0.15 km north west) is unlikely to be directly impacted by water exiting the site as drainage channels are present along Pacific Highway which would capture any surface flow from site.

During the site inspection, two dams and several waterbodies associated with the endurance course were identified as shown in **Figure 4**.

¹⁰ 'Spatial Information Exchange Viewer', NSW Land and Property Information, Accessed 20 August 2019, <https://maps.six.nsw.gov.au/>

¹¹ Och et al. 2015, Gosford-Lake Macquarie 1:100 000 Geological Sheets 9131 & 9231, Geological Survey of New South Wales, Sydney

¹² 'eSPADE NSW Soil and Land Information', NSW Office of Environment and Heritage, Accessed 20 August 2019, <http://www.environment.nsw.gov.au/eSpade2Webapp>

2.7 Hydrogeology

Licensed groundwater bore information was obtained from the NSW Department of Primary Industries groundwater mapping portal (BOM 2019¹³). A review of the licensed bore information indicated that there are three groundwater wells within 1.5 km of the site. The details of these bores are noted in **Table 2.3** and the locations shown in **Appendix B**.

Table 2.3: Summary of Registered Groundwater Bores

Bore ID	Use	Standing water level (mbgs)	Well Depth	Elevation (m AHD)	Distance from site	Coordinates
GW027930	Water supply	Unknown	29.9m	Unknown	0.55km South-west of site	E: 362389.00 N: 6325714.00
GW027933	Water supply	Unknown	Unknown	Unknown	0.55km South-west of site	E: 362415.00 N: 6325653.00
GW027929	Water supply	Unknown	29.3m	32.21	0.60km South-west of site	E: 362390.00 N: 6325653.00

Groundwater within the site is expected to generally flow east toward Colongra Lake. With the site situated mid-gradient between Mannering and Colongra Lakes, it would be expected that groundwater could migrate south-east from Mannering Lake through the northern portion of the site. Groundwater could also enter the site from the south west consistent with the site topography.

2.8 Acid Sulfate Soils

Acid sulfate soils (ASS) are generally associated with low-lying coastal areas, including estuarine flood plains, rivers and creeks. A review of the eSPADE NSW acid sulphate risk mapping (OEH 2019¹⁴) identified the far south eastern boundary of the site is considered to have a low probability of ASS at >3m depth.

2.9 Meteorology

A review of average climatic data for the nearest Bureau of Meteorology monitoring locations for rainfall (Gorokan) and temperature (Norah Head) (BOM, 2019¹⁵) indicates the site is located within the following meteorological setting:

- Mean maximum temperature ranges from 17.5°C in July to 26.2°C in January, while mean minimum temperature ranges from 9.7°C in July to 20.0°C in February; and
- The average annual rainfall is approximately 1217 mm. On average, July received the least amount of rain with a mean rainfall of 67.5 mm, while June receives the most rain, with a mean of 139.9 mm.

¹³ Australian Bureau of Meteorology, 2019, Australian Groundwater explorer, <http://www.bom.gov.au/water/groundwater/explorer/map.shtml>. Accessed 06 August 2019

¹⁴ 'eSPADE NSW Soil and Land Information', NSW Office of Environment and Heritage - accessed 20 August 2019, <https://www.environment.nsw.gov.au/eSpade2Webapp#>

¹⁵ Commonwealth of Australia, 2019 Bureau of Meteorology, <http://www.bom.gov.au/climate/data/> Product IDCJCM0028 prepared on 16 August 2019 - accessed by JBS&G on 20 August 2019

3. Site History

JBS&G undertook a review of historical aerials from 1954 to 2016 which are presented in **Appendix C** and described below.

3.1 Aerial Photographs

1954: The site comprised a mix of cultivated fields/plots in the north and east and sparse vegetation in the centre and south west. Two dams were located in the centre of the site adjacent a dirt track running from Pacific Highway to the eastern boundary of the site. A residential dwelling at Lot 7 appeared present.

Pastoral land bounded the site to the north, east and south with a creek running west to east to a dam approximately 100 m from the southern boundary of the site. The Pacific Highway ran adjacent to the western boundary of the site, across which lay trees to the south and agricultural land from the centre of site northwards. A portion of Manning Lake bounds the west of these properties.

1966: The site remained mainly pastoral and forestry based. Eight buildings were present in the south western portion of the site connected to Pacific Highway via a dirt track. The dirt track running across the centre of the site had slightly changed course meandering north of the two dams to access a potential quarry area along the eastern boundary of the site. Two long structures potentially associated with market gardens were present along adjacent Pacific Highway north of the residential dwelling of Lot 7.

Pastoral land to the north and east remained unchanged. Wentworth Avenue had been constructed to the south of the site, as had the coal conveyor system running adjacent to the south side of Wentworth Avenue. To the south west buildings surrounding the current Fire Station were present. The west of the site remained unchanged with the exception of improvements made to the Pacific Highway.

1976: Significant works were underway on the RSL area and associated sports fields in the south western portion of the site, including an asphalt carpark adjacent the Pacific Highway. A sediment or potential waste water pond was present in the central southern portion of the site. Some filling activities related to the cut and fill for the sports fields had occurred in the south western portion of the site. An unnamed gravel road was present running west to east from Pacific Highway in Lot 49 with several buildings adjacent the gravel road near Pacific Highway.

Pastoral land to the north appears unchanged except for a shed having been constructed adjacent the northern boundary near the Pacific Highway. A coal conveyor system ran south to north adjacent the western boundary of the site. The former quarry to the central east of the site had been backfilled. To the south of the site some residential dwellings had been constructed along Wentworth Avenue. All residential dwellings and buildings to the west of the Pacific Highway had been removed and the land returned to pasture. Earthworks associated with the construction of the northern carriageway of the Pacific Highway had begun.

1984: The site remained unchanged with continued minor earthworks to the RSL facilities and a fence having been constructed around the sediment or potential waste water ponds.

The northern, and eastern areas surrounding the site remained unchanged. The Pacific Highway twin carriageway upgrade was complete and increased residential dwellings had been constructed at Wentworth Avenue.

1994: Additional construction to the RSL facility was underway with fill associated with the foundations used to backfill the sediment or potential waste water pond. Several stockpiles of soil were present south of the sports fields. One of the dams in the central portion of the site had been infilled. The remainder of the site remained unchanged.

To the north an increase in horticultural activities and construction of associated greenhouse like structures and excavation of a large dam had occurred. The east and west of the site remained unchanged, with only an increase in the water level of Lake Manning, potentially associated with the coal and power plants of the area, the only discernible difference. Increased density of residential housing to the south on Wentworth Avenue had continued.

2006: Fill activities had occurred in the southern and south eastern portion of the site in order to create additional sport fields. An asphalt carpark had been constructed in the south western portion of the site west of the sports field and adjacent to the Pacific Highway. The buildings in the north western portion of site were no longer apparent.

Additional buildings associated with the horticultural business based directly north of the site had been constructed. The eastern and southern areas surrounding the site remained unchanged. To the west Manning Lake had again increased in size.

2010: Disturbed terrain was present along the southern boundary of Lot 7 (110 Pacific Highway) where a Jemena high pressure pipeline had been installed. A small building had also been constructed adjacent the central sports field in the southern portion of the site. The remainder of the site appeared unchanged.

To the north of the site improvements and additions had been undertaken to the buildings associated with the horticultural business. The east remained unchanged with the exception of the Jemena pipeline running adjacent to the coal conveyor system and boundary. The south of the site remained unchanged. To the west of the site a dam had been constructed through a portion of Manning Lake, and improvements had been made to the shoreline of the lake. The Jemena pipeline was present leading up to the under the Pacific Highway to the site.

2016: An additional building had been constructed to the north east of the RSL building in the south western portion of the site. Stockpiling of earthen material had occurred in the wooded area in the central portion of the site. Substantial improvements and earthworks had occurred in the northern portion of the site due to the construction of the Raw Challenge obstacle course.

To the north of the site some buildings associated with the horticultural business had been demolished. Decommissioning and partial dismantlement of the coal conveyor system to adjacent the eastern boundary had occurred. No other major changes appeared to have occurred to the surrounding area.

3.1.1 Historical Aerial Summary

The overall site originally comprised of pastoral/agricultural and forestry. Several buildings have been present on site and subsequently removed (AEC 4), specifically residential buildings in the carpark north of the RSL, and in central western portion of 110 Pacific Highway approximately 50 m from the road. Potentially there were also buildings of an industrial nature adjacent to the residence in 110 Pacific Highway occupying an area of approximately 7,000 m². It appears that in 1966, along the north eastern boundary of the site, a staging area of approximately 5,100 m² for the construction of the coal conveyor system running along the eastern boundary, was present.

From 1976, the beginning of the construction of the RSL facilities and some sports fields began at 80, 90 Pacific Highway. During this time evaporation trenches (AEC 5) for treatment of sewage/wastewater were dug (pre 1976) and subsequently filled (pre 1994). Further improvements have occurred to the facilities in the following years including two distinct periods of cut and fill and importation of fill activities to create the sports fields (AEC 1) (1976 and 2005). Stockpiling of various materials (AEC 2) has occurred at 100 Pacific Highway since the early 2000s. Dams (AEC 6) have been present on the site since 1954, and additional water bodies associated with the endurance course were excavated in the mid-2010s.).

3.2 Historical Land Titles

Historical land title information has been summarised from the GHD PSI (2018) and is as follows;

- Lots 1 to 9 DP 215875 (49 – 65 Wentworth Avenue): from 1964 to 1975 Lots 1 and 2 were owned by a mechanic, and from 1973-1974 Lot 9 was owned by a carpenter. Review of the historical aerials from these periods show no structures present on these Lots, indicating no workshops or facilities associated with the owner’s professions were constructed during this time;
- Lot 1 DP 503655 (80 Pacific Highway): Historical titles for this property do not indicate potential contaminating activities;
- Lot 11 DP 2400685 (90 Pacific Highway): Historical titles for this property do not indicate potential contaminating activities;
- Lot 49 DP 707586 (100 Pacific Highway): Historical titles for this property do not indicate potential contaminating activities; and
- Lot 7 DP 240685 (110 Pacific Highway): Historical titles for this property do not indicate potential contaminating activities.

3.3 EPA Records

Search of the NSW EPA’s public register under the *Protection of the Environment Operations Act 1997* (POEO Act) was undertaken (**Appendix D**). The search for the assessment area identified there were:

- No prevention, clean-up or prohibition notices; and
- No transfer, variation, suspension, surrender or revocation of an environmental protection licence.

A search for environment protection licences in the vicinity of the site revealed that three licences have been issued. Details of which are found in **Appendix D** and are summarised in **Table 3.2**.

Table 3.2: POEO Licenses in Area

Licence Number	Name	Location	Purpose	Status	Issue date	Distance from site
5022	Fulton Hogan Industries Pty Ltd	2-4 David street, Doyalson	Bitumen pre-mix or hot-mix production	No longer in force	04-03-2003	0.7 km South-West of site
191	Centennial Munmorah Pty Ltd	Scenic Drive, Doyalson	Coal works	Surrender of a licence	03-05-2011	2 km South-east of site
759	Delta Electricity, Munmorah Power station	Scenic Drive, Doyalson	Miscellaneous licence discharge to waters (at any time)	s.58 Licence variation	26-03-2019	2 km South-east of site

The site has not been notified to the EPA under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) with regards to contamination. Three sites nearby have been notified to the EPA, as listed in **Table 3.3** and attached in **Appendix D**.

Table 3.3: Nearby Sites Notified to the EPA under Section 60

Name	Address	Distance from site (km)	Direction	Contaminating Activity Type
Munmorah Power Station	Central Coast Highway, Scenic Drive	1.3	Southeast	Unclassified
Manning Colliery	Rutleys Road	1.5	North	Other Industry
Lot 3 DP 259306	2-4 David Street, Doyalson	0.8	Southwest	Former Brickworks

A search was also undertaken through the EPA's public contaminated land register (**Appendix D**). The search identified that there have been no notices issued under the CLM Act for the site and immediate surrounds.

3.4 EPA Per and Poly – Fluoroalkyl Substances (PFAS) Register

A search of the EPA's public PFAS register indicated that the nearby Munmorah and Colongra Power Stations, 2 km to the south east are currently subject to a PFAS investigation shown in **Appendix E**. Further information from previous investigations (GHD 2018) as discussed in **Section 4.1** indicate that the boundary of the investigation area extends along the eastern portion of site (AEC 7). The power stations subject to the investigation are situated downgradient of the site so hydrologically transported PFAS is unlikely, however windblown dust with PFAS is a potentially source of off-site contamination.

The Doyalson Fire Station (AEC 7) is situated 150 m upgradient to the south west of site, but it has not been subject to any PFAS investigations and is noted to be of modern construction.

3.5 Australian and NSW Heritage Register

A search of both the Australian Heritage Trust database and the NSW Heritage Inventory did not identify any heritage listed items at the site. Heritage information covers Aboriginal, as well as European heritage and is included in **Attachment D**.

3.6 Planning Certificates

Copies of the Planning Certificates for the site are included in **Appendix F**. Relevant information is summarised below:

- The Council has not been notified that the site is contaminated and the site has not been identified as triggering any of the matters prescribed by Section 59(2) of the *CLM Act 1997*. Council has not been provided a site audit statement in relation to the site.
- The site has been proclaimed to be within a mine subsidence district.
- The site is not in conservation area, does not include critical habitat, does not contain an item of environment heritage, not affected by road widening/alignment, and there are no notices under the *Coastal Protection Act 1979*.
- The land is not biodiversity certified land as defined by Part 7AA of the *Threatened Species Conservation Act 1995*.

3.7 Integrity Assessment

The information obtained from the historical sources reviewed and the recent searches undertaken has been found to be in general agreement. It is therefore considered that the information provided in this historical assessment has an acceptable level of accuracy.

4. Previous Investigations

4.1 Preliminary Site Investigation (GHD 2018)

GHD Pty Ltd (GHD) completed a PSI for a parcel of land including the current site boundaries in May 2018. The aim of the non-sampling (desktop) investigation was to assist the client in the development approval process.

A review of the site history indicated that the site appeared to be utilised for agricultural purposes prior to 1966 as inferred by numerous cultivated fields and farming structures. Post-1966 the site was inferred to contain a suspected quarry area in the north east portion of site based on surface scaring, a wastewater treatment pond and sporting fields. Based on the findings of the desktop study and site inspections by GHD 2018, potential sources of on/offsite contamination, both historical and active, were identified as follows;

80-100 Pacific Highway Doyalson;

- Historic wastewater treatment area;
- Uncontrolled fill used for land-forming including backfill of wastewater treatment facilities and construction of sports fields;
- Storage of motor oils, liquid and solid chemicals in un-bunded areas;
- Staining from motor oils and/or potential seepage from motor oil sump;
- Uncontrolled dumping/stockpiling of unknown materials (including demolition waste); and
- Structures currently onsite site which may contain ACM.

110 Pacific Highway Doyalson;

- Uncontrolled fill used for land-forming activities including backfill of creek beds;
- Potential industrial buildings pre-1970;
- Potential market-gardens;
- Potential quarried area; and
- Structures currently onsite site which may contain ACM.

External;

- Manning Lake which serves as an ash disposal area for the Mannering Power Station which is potentially up-gradient of the site; and
- A PFAS investigation area to the east of the site associated with the Munmorah and Colongra Power Stations.

5. Conceptual Site Model

Based on the available site history information, past investigations and site inspection, the various elements of a CSM are discussed below.

5.1 Overview

National Environmental Protection Council (NEPC) (NEPC 2013) identifies a CSM as a representation of site related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The development of a CSM is an essential part of all site assessment and remediation reports.

NEPC (2013) identified the essential elements of a CSM as including:

- Known and potential sources of contamination and contaminants of concern including the mechanism(s) of contamination;
- Potentially affected media (soil, groundwater, surface water etc.);
- Human and ecological receptors;
- Potential and complete exposure pathways; and
- Any potential preferential pathways for vapour migration (if potential for vapours identified).

5.2 Potential Areas and Substances of Environmental Concern

Based on the available site history information, review of previous investigations and with consideration to proposed end land uses, AECs and associated COPC have been identified and are presented in **Table 5.1** and shown on **Figure 4** where appropriate.

Table 5.1: Areas of Environmental Concern and Associated Contaminants of Potential Concern.

AEC No.	AEC	Potentially Effected Media	COPC
Onsite AECs			
1. Filling	Substantial Filling (Sports Field Construction)	Soil	Heavy metals, TRH, BTEX, VOCs, PAHs, PCBs, OCPs, asbestos, PFAS (PFAS in southern and eastern sport field only)
	Filled Creek Bed	Soil	Heavy metals, TRH, PAHs, PCBs, asbestos
	Dam Embankments	Soil	Heavy metals, TRH, BTEX, PAHs, OCBs,
2. Stockpiling	Large Stockpile (Stockpile 1, 4,900 m ³) at 100 Pacific Highway	Soil	Heavy metals, PAHs, PCBs, OCPs, asbestos,
	Soil / Garden Refuse Stockpile (Stockpiles 2 and 3, 700 m ³)	Soil	Heavy metals, TRH, BTEX, VOC, PAHs, PCBs, OCPs, asbestos
	Stockpile 4 with Trace Level Anthropogenic Inclusions (185 m ³)	Soil	Heavy metals, TRH, BTEX, VOC, PAHs, PCBs, OCPs, asbestos
3. Chemical Storage	Vehicle Maintenance Building	Soil Groundwater	Heavy metals, TRH, BTEX, VOC, PAHs, asbestos
	Liquid and Solid Chemical Store	Soil Groundwater	Heavy metals, TRH, BTEXN, VOCs, PAHs, PCBs, OCPs
4. Historic Buildings / Activities	Potential Former Industrial Area	Soil	Heavy metals, TRH, BTEX, VOC, PAHs, asbestos
	Former Building Footprint	Soil	Heavy metals, TRH, BTEX, VOC, PAHs, PCBs, asbestos
	Potential Staging Area	Soil	Heavy metals, TRH, BTEX, VOC, PAHs, PCBs, asbestos

AEC No.	AEC	Potentially Effected Media	COPC
5. Infiltration Trenches / Septic System	Former Wastewater Area	Soil	Biological
	Septic Tank	Soil	Biological
6. Balance of Site	Site Soils	Soil	Heavy metals, TRH, BTEX, VOC, PAHs, PCBs, asbestos, SPOCAS
	Old Drainage Pathways and Dam Sediments	Sediment	Heavy metals, TRH, PAHs, PCBs
	Site Groundwater	Groundwater	Heavy metals, TRH, BTEX, VOC, PAHs, PFAS, pH, alkalinity, nitrate, ammonia
	Site Surface Water (Dams)	Surface Water	Heavy metals, TRH, BTEX, VOC, PAHs, pH, PFAS, alkalinity, nitrate, ammonia
Offsite AECs			
7. Groundwater	Munmorah and Colongra Power Stations PFAS Investigation Area	Soils Groundwater	PFAS
	Doyalson Fire Station	Groundwater	PFAS
	Metro Petroleum Service Station	Groundwater	Heavy metals, TRH, BTEX, VOC, PAHs
	Manning Lake ash and slag dam	Groundwater	Heavy Metals, PAHs, PFAS

5.3 Potentially Contaminated Media, Exposure Pathways and Receptors

Potentially contaminated media that may be present at the site include:

- Fill materials;
- Natural soil/bedrock;
- Groundwater; and
- Surface water.

Table 5.2 below provides a breakdown of potentially contaminated media within identified AECs presented in **Table 5.1**.

Table 5.2: Potentially Contaminated Media

AEC No.	Potentially Effected Media	Comments
Onsite AECs		
1. Filling	Fill Material	Potential remains for contamination in fill material resultant from importation of fill materials of unknown origin or use of site waste materials to create former/existing site levels.
	Natural Material	Natural material (soil/rock) underlying fill material may potentially be impacted by the downward migration of contaminants from impacted fill, particularly in open areas where infiltration is possible or subsurface infrastructure is/was present.
	Groundwater	There is the potential for the leaching of contaminants vertically from fill/natural material to groundwater.
2. Stockpiling	Fill Material	Potential remains for contamination in fill material resultant from importation of fill materials of unknown origin.
	Natural Material	There is the potential for impacted stockpile material to leach into the underlying natural materials.
	Surface Water	There is the potential that run off from rain will allow contaminants to leach and migrate to the surface water of the nearby dam
3. Chemical Storage	Fill Materials	There is potential for contamination in shallow fill material resultant from historical plant cleaning, waste oil separators and storage of fuel and chemicals in unbunded areas

AEC No.	Potentially Effected Media	Comments
	Natural Materials and Groundwater	If gross contamination is present, there is potential for contamination in both natural material (soil/rock) and groundwater from the downward migration of contaminants from impacted fill
4. Historic Buildings / Activities	Fill Material	Fill Material in the area of potential historic buildings may be impacted by historic uses, particularly in open areas where infiltration is possible or subsurface infrastructure is/was present
	Natural Material	Natural material (soil/rock) may potentially be impacted by historic vehicle and plant activities
5. Infiltration Trenches / Septic System	Fill Material	Fill Material in the area of historic trenches / septic system may be impacted by biological contaminants
	Natural Material	Natural Material in the area of historic trenches / septic system may be impacted by leachable biological contaminants
6. Balance of Site	Natural Material	Natural Material could be affected by windblown contaminants such as PFAS (windblown dust), or friable asbestos if there are any major impacts in the area
	Sediment	Sediment in ephemeral drainage lines and dams could be affected by contaminants leaching out of surface water over time.
	Groundwater	Groundwater could be impacted from the migration of contaminants from overlying fill or natural materials or offsite sources.
	Surface Water	Run off from potentially leachable stockpiles and fill materials may present concentrations of COPCs in surface water bodies
Offsite AECs		
7. Groundwater	Surface Soils	PFAS impacted dust may be aurally transported onto site from the nearby PFAS investigation area. This dust would likely be present on the ground surface.
	Groundwater	Upgradient groundwater flowing on to site may potentially be impacted by PFAS (Fire Station, Manning Lake), heavy metals (Manning Lake) or petroleum hydrocarbons (Metro Petroleum Station)

5.4 Potential for Migration

Contaminants generally migrate from site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth); and
- The site topography, geology, hydrology and hydrogeology.

The potential contaminants identified as part of the site history review and previous investigation are generally in either a solid form (e.g. heavy metals, asbestos, etc.) and liquid form (e.g. fuel, solvents, etc.), however, dependent upon concentrations, there is the potential for TRH, VOC (including BTEXN) impacts to occur in a vapour form.

Given the nature of the underlying soils (large amounts of fill in the sports fields) migration of contamination via groundwater movement is considered to be a potential migration pathway.

As the site is primarily either paved/sealed with impervious pavements, grassed sports fields and endurance course or timbered vegetation / scrub, the potential for windblown dust migration of contamination from the site is generally low. The potential for contamination migration via surface water movement and infiltration of water and subsequent migration through the soil profile is considered moderate given the extent of exposed vegetated areas at the site.

5.5 Potential Exposure Pathways

Based on the COPCs identified in various media, as discussed above, and site development activities, the exposure pathways for the site during and following development works include:

- Potential dermal and oral contact to impacted soil as present at shallow depths and/or accessible by future service excavations; and/or
- Potential dermal and oral contact with fill materials during excavation and foundation works; and/or
- Potential oral and dermal contact to surface water as accessible by potential future service excavations; and/or
- Potential contaminant uptake by vegetation within landscaped areas.

5.6 Receptors

Potential receptors of environmental impact present within the site to be addressed include:

- Future users of the non-paved areas of the site who may potentially be exposed to COPCs through direct contact with impacted soils and/or inhalation of dusts/fibres/vapours associated with impacted soils; and/or
- Excavation/construction/maintenance workers conducting activities at or in the vicinity of the site who may potentially be exposed to COPCs through direct contact with impacted soils/groundwater/surface water present within excavations and/or inhalation of dusts/fibres/vapours associated with impacted soils/groundwater; and/or
- Flora species to be established on the landscaped/vegetated areas of the site including potential large tree plantings.

5.7 Preferential Pathways

A range of preferential pathways currently exist at the site associated with the existing fill material and existing/former services trenches, including irrigation and drainage lines, stormwater pits and electricity conduits. Generally higher permeability backfill, or the reduced compaction requirements overlying these services result in the services trenches becoming preferential pathways for contaminant migration and as such it is anticipated that contaminants in liquid and/or vapour form may be associated with these areas. Preferential pathways may also be created during development works as a result of installation of new services.

Man-made preferential pathways are also anticipated to occur nearby the site within the adjoining road reserves. There is potential for offsite services to bring contaminants from the upgradient service and fire stations on to site.

6. Sampling and Analysis Plan

6.1 Data Quality Objectives

Data quality objectives (DQOs) were developed for the investigation, as discussed in the following sections.

6.1.1 State the Problem

The DSI is required to assess potential contamination risks to inform the redevelopment of the site.

6.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017¹⁶), the following decisions must be made:

1. Are there any unacceptable risks to likely future on-site receptors?
2. Are there any issues relating to background soil concentrations that exceed appropriate site soil criteria?
3. Are there any impacts from chemical mixtures?
4. Are there any aesthetic issues at the site?
5. Is there any evidence of, or potential for, migration of contaminants from the site?
6. Is a site management strategy required?

6.1.3 Identify Inputs to the Decision

Inputs identified to make the decisions nominated above include:

- Historical site information and inspection of the site to identify and/or confirm potential AECs and COPC at the site;
- The collection and interpretation of environmental data through collection and analysis of soil and groundwater samples;
- Laboratory analysis of samples of potentially contaminated media for COPC; and
- Confirmation that data generated by sample analyses were of sufficient quality to allow reliable comparison to assessment criteria as undertaken by assessment of quality assurance / quality control (QA/QC).

Specifically, sufficient data needs to be collected from each of the identified potentially impacted media (e.g. fill material and natural soils) at the site relating to the in the identified AECs and associated COPC.

6.1.4 Define the Study Boundaries

The study boundaries (lateral extents) are limited to site boundaries as described in **Section 2.1** and shown on **Figure 2**.

The vertical extent of the investigation was to a maximum depth of 10.1 m below ground surface (bgs).

Due to the project objectives, seasonality was not be assessed as part of this investigation. Data was therefore representative of the timing and duration of the investigation.

¹⁶ Contaminated Sites: Guidelines for the NSW Site Auditor Scheme, 3rd Edition, NSW EPA, 2017 (EPA 2017)

6.1.5 Develop Decision Rules

Analytical data for potentially contaminated media was assessed against NSW EPA endorsed criteria as identified in **Section 7**.

The decision rules adopted to answer the decisions identified in **Section 6.1.2** are summarised in **Table 6.1**.

Table 6.1: Summary of Decision Rules

Decisions Required to be Made	Decision Rule
1. Are there any unacceptable risks to on-site future receptors?	<p>Analytical data will be compared against EPA endorsed criteria. Statistical analysis of the data will be completed, where necessary, in accordance with relevant guidance documents, as appropriate, to facilitate the decisions. The criteria in Section 7 were adopted with respect to soil and surface water.</p> <p>Either: the reported concentrations were all below the Site criteria; Or: no single analyte concentration exceeded 250 % of the adopted site criterion; and the standard deviation of the results was less than 50 % of the site criterion;</p> <p>And: the 95 % Upper Confidence Limit (UCL) of the average concentration for each analyte was below the adopted site criterion.</p> <p>If the statistical criteria stated above were satisfied, the answer to the decision was No.</p> <p>If the statistical criteria were not satisfied, the answer to the decision was Yes.</p>
2. Are there any issues relating to the local area background soil concentrations that exceed appropriate soil criteria?	<p>If COPC concentrations in soils exceeded published background concentrations (NEPC 2013), the answer to the decision is Yes.</p> <p>Otherwise the answer to the decision is No.</p>
3. Are there any chemical mixtures?	<p>Were there more than one group of contaminants present which increase the risk of harm?</p> <p>If there is, the answer to the decision is Yes.</p> <p>Otherwise, the answer to the decision is No.</p>
4. Are there any aesthetic issues?	<p>If there were any asbestos containing material (ACM) fragments on the ground surface, any unacceptable odours or soil discolouration, or excessive extraneous/foreign/waste materials, the answer to the decision is Yes.</p> <p>Otherwise, the answer to the decision is No.</p>
5. Is there any evidence of, or potential for, migration of contaminants from the site?	<p>Based on assessment results, is there any evidence of, or the potential for, migration of unacceptable contaminant concentrations to migrate from the site?</p> <p>If yes, the answer to the decisions is Yes.</p> <p>Otherwise, the answer to the decision is No.</p>
6. Is the site suitable?	<p>Is the answer to any of the above decisions Yes?</p> <p>If yes, the site is not considered suitable.</p> <p>If no, the site is not considered suitable.</p>

6.1.6 Specific Limits on Decision Errors

This step is to establish the decision maker's tolerable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data. Data generated during this project must be appropriate to allow decisions to be made with confidence.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA, National Environmental Protection Measure (NEPM), appropriate Data Quality Indicators (DQIs, used to assess quality assurance / quality control) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data will be assessed against pre-determined DQIs for to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The pre-determined DQIs established for the project are discussed below in relation to the PARCCS parameters and are shown in **Table 6.2**.

- **Precision** – measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** – measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy.
- **Comparability** – expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; and ensuring analysing laboratories use consistent analysis techniques; and reporting methods.
- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.
- **Sensitivity** – expresses the appropriateness of the chosen field and laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

Table 6.2: Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples/media	<50% RPD ¹
Split Duplicated (Inter laboratory)	1 / 20 samples/media	<50% RPD ¹
Laboratory Duplicates	1 / 20 samples/media	<50% RPD ¹
Accuracy		
Surrogate spikes	All organic samples	70-130% recovery
Laboratory control samples	1 per lab batch	70-130% recovery
Matrix spikes	1 per lab batch	70-130% recovery
Representativeness		
Sampling appropriate for media and analytes	All samples	- ²
Samples extracted and analysed within holding times.	-	Soil: organics (14 days), inorganics (6 months)
Laboratory blanks	1 per lab batch	<LOR
Trip spike	1 per lab batch (soil only)	70-130% recovery
Storage blank	1 per lab batch (soil only)	<LOR
Equipment/rinsate blank	1 per sampling event/media	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples
Standard laboratory analytical methods used for all analyses	All Samples	NATA accreditation
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples ²
Limits of reporting appropriate and consistent	All Samples	All samples ²
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples ²
Appropriate documentation	All Samples	All samples ²
Satisfactory frequency and result for QC samples		95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All samples	LOR ≤ site assessment criteria

¹ If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error occurs in field.

² A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

6.1.7 Optimise the Design of Obtaining Data

The *Contaminated Sites: Sampling Design Guidelines* (EPA 1995) does not provide specific guidance on the sampling density for sites larger than 5 ha. Sampling within each identified type and area of AEC was planned after consideration of the potential for contamination based on an understanding of the potential AECs and site history.

As such, consistent with the *Contaminated Sites: Sampling Design Guidelines* (EPA 1995), a total of 165 soil sampling locations were advanced across the site utilising a combination of systematic (grid-based) and targeted sampling designs, as outlined in **Table 6.3**. Soil sample locations are shown on **Figure 5A** and **5B**.

6.2 Soil Sampling Methodology

During field works completed between 12 – 16th August 2019, JBS&G collected soil samples from 165 locations across the site. Samples were taken from 53 boreholes and 112 testpits (10 of which were advanced to natural through stockpiles) as shown in **Table 6.4** and on **Figures 5A** and **5B**.

Boreholes were manually advanced via the use of either hand tools or mechanically by use of a solid flight auger attached to a drill rig and samples were collected at regular intervals from the surface

soils (<0.1 m) to a maximum depth of 10.1 m bgs. Test pits were advanced utilising an excavator and soil samples were collected directly from the bucket of the excavator at regular intervals from the surface soils (<0.1 m), 0.3 m, 0.5 m then at every half metre to metre intervals to maximum depth of 4.5 m bgs. Ten samples were collected from stockpiled material observed during the investigation (TP49, TP52, TP53, TP63, TP64, TP97, TP139 - TP141 and TP152), these test pits were advanced through the stockpiles into natural material

During the collection of soil/sediment samples, features such as seepage, discolouration, staining, odours and other indicators of contamination, if present, were noted.

Collected samples were immediately transferred to laboratory supplied sample jars and 500 mL zip-lock bags. The sample jars were transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory. Preservation of the primary soil and QA/QC samples obtained during this investigation was completed in accordance with the protocols outlined in NEPC 2013.

Sediment samples were collected from lowing areas, dams and in ephemeral drainage lines from four locations across site (BH13, TP86, TP151 and TP152).

Soil samples were analysed in accordance with the laboratory schedule in **Table 6.3**.

6.2.1 Field PID Screening

Soil samples were screened on site during field works using a PID to assess the potential presence of VOCs including petroleum hydrocarbons. Soil samples obtained for PID screening were placed in a sealed plastic bag for a period of approximately five minutes to equilibrate, prior to a PID being attached to the bag. Readings were then monitored for a period of approximately one minute or until values stabilised and the stabilised / highest reading was recorded. PID screening results were recorded on the field soil logs included as **Appendix F**.

6.3 Groundwater Sampling Methodology

6.3.1 Monitoring Well Installation

During the fieldworks, eight soil boreholes (BH01/MW01, BH02/MW02, BH04/MW03, BH12/MW04, BH38/MW05, BH115/MW06, BH135/MW07 and BH70/MW08) were converted to groundwater monitoring wells and subsequently sampled. BH01/MW01 and BH02/MW02 are situated in the upgradient portion of site (south west). BH38/MW05 and BH115/MW06 are situated along the western boundary cross gradient of Manning Lake, to capture potential offsite COPCs that may migrate on to site. MW04, MW07 and MW08 are situated in the down gradient portions of site (eastern boundary) to target potential COPCs that may be migrating off site. Monitoring well locations are shown in **Figure 5**.

Boreholes were mechanically advanced by use of a solid flight auger attached to a drill rig to a depth of 10.1 m bgs and constructed using Class 18 uPVC (50 mm ID) screen and casing. A 3 m screen was used, and gravel filter pack was placed up to and 0.5 m above the screened interval with a 1 m bentonite seal above. The remaining bore annulus was backfilled with soil cuttings and a roadbox was installed at MW01, MW02, MW03 and MW05, and a PVC standpipe extending above the ground surface approximately 0.9 m at each of MW04, MW06, MW07 and MW08.

Well construction details were recorded on borelogs included as **Appendix G**.

6.3.2 Monitoring Well Development

Once installed, monitoring wells were developed by use of foot pump to remove any fines, settle the filter pack and ensure representative groundwater samples could be collected. The wells were developed until they were dry or at least 30 litres of water was removed. The wells were left to settle and were subsequently sampled four days later.

6.3.3 Groundwater Sampling

On the 16 August 2019, three days after well development, the depth to standing water was gauged and an assessment of the presence of Light Non-Aqueous Phase Liquid (LNAPL) and Dense Non-Aqueous Phase Liquid (DNAPL) was made using a Solinst (PTFE free) Interface Probe (IP). Following this, PFAS sampling was undertaken via Hydrasleeves, which comprise a flexible 3mm thick lay-flat polyethylene sleeve with a weight on the bottom and check valve on the top, via the following procedure:

- Prior to sampling all non-disposable equipment (i.e. HydraSleeve weights and clips), were decontaminated in line with project/PFAS-specific wash-down procedures (Liquinox, a PFAS free detergent was used);
- The HydraSleeve sampler was lowered into the well to the prescribed sampling depth (i.e. within the screened interval) and left for three days to allow the water column to re-equilibrate following the minor disturbance that occurs during deployment;
- On the 19 August 2019 the groundwater sample was then collected by pulling the HydraSleeve up through the water column, to the surface. The recovered water sample was then decanted into the appropriate (non-Teflon lined) laboratory supplied sample bottles. Groundwater samples were obtained in a manner that ensured no headspace remained in the bottles;
- Each of the sample bottles were labelled using ball point pens with the project ID, date, sampler's initials and unique monitoring well ID (or QC sample name); and
- In order to minimise cross contamination sample bottles were immediately placed into a separate pre-chilled esky, for transport to the testing laboratories.

Following PFAS sampling, monitoring wells were purged and sampled for the remaining analytes using a low flow peristaltic pump. Once field parameters (**Section 6.3.4**) were deemed acceptable samples were collected in the order of those for most-volatile to least volatile contaminants.

The sample containers were then transferred to a chilled esky, separate from the PFAS samples, for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples.

Samples were analysed in accordance with the laboratory schedule in **Table 6.3**.

6.3.4 Field Screening

Field parameters of pH, conductivity, redox and temperature were measured using a flow cell and samples obtained once the parameters stabilised such that:

- Consecutive Electrical Conductivity (EC) readings are within 5 %;
- Consecutive Eh readings are within 10 mV;
- Consecutive DO readings are within 10 %; and
- Consecutive pH readings are within 0.05 pH units.

A record of gauging data, sample observations (including colour, odour, presence of sheens) and sampling method details were recorded and are provided in **Appendix H**.

6.4 Surface Water Sampling Methodology

During the completion of the detailed site investigation as described herein, JBS&G collected surface water samples from five water bodies on site (three dams and two endurance course water features). Sampling locations are shown in **Figure 5**. Surface water samples were collected from the bank of a waterbody via use of a decontaminated sampling pole. The samples were collected at a

range of between 0.5 – 1.8 m from the bank of the water bodies, field notes are presented in **Appendix H**.

Collected samples were collected and heavy metal samples were filtered prior to being transferred to a chilled ice box, in order to minimise cross contamination PFAS sample bottles were immediately placed into a separate pre-chilled esky, prior to transport to the testing laboratories. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory.

Preservation of the primary surface water and QA/QC samples obtained during this investigation was completed in accordance with the protocols outlined in NEPC 2013.

Surface water samples were analysed in accordance with the laboratory schedule in **Table 6.3**.

Table 6.3: Targeted Sampling Locations and Laboratory Schedule

AEC No.	AEC	Potentially Effected Media	Number of Sample Locations ¹	Analysed Contaminants of Concern
Onsite AECs				
1. Filling	Substantial Filling (Sports Field)	Soil	31	Heavy metals – 67 samples, PAHs – 60 samples TRH – 27 samples, VOCs – 31 samples OCPs – 26 samples, PCBs –19 samples Asbestos NEPM (500g) – 28 samples Asbestos (presence/absence) – 5 Fragments Biological/Bacteria (E.coli, F.coli, Salmonella) – 3 samples Ecological parameters ² – 1 sample
	Filled Creek Bed	Soil	9	Heavy metals – 13 samples, PAHs – 13 samples TRH – 6 samples, VOCs – 6 samples OCPs – 8 samples, PCBs –6 samples Asbestos NEPM (500g) – 3 samples
	Dam Embankment	Soil	3	Heavy metals – 4 sample, PAHs – 4 sample TRH – 1 sample, VOCs – 1 sample OCPs – 1 sample, PCBs –1 sample
2. Stockpiling	Large Stockpile at 100 Pacific Highway	Soil	4	Heavy metals – 4 samples, PAHs – 3 samples TRH – 3 samples, VOCs – 3 samples OCPs – 2 samples, PCBs –1 sample Asbestos NEPM (500g) – 4 samples
	Soil / Garden Refuse Stockpile	Soil	4	Heavy metals – 5 samples, PAHs – 5 samples TRH – 2 samples, VOCs – 2 samples OCPs – 2 samples, PCBs –2 samples Asbestos NEPM (500g) – 4 samples
	Stockpile with Potential Anthropogenic Inclusions	Soil	1	Heavy metals – 1 sample, PAHs – 1 sample TRH – 1 sample, VOCs – 1 sample OCPs – 1 sample, Asbestos NEPM (500g) – 1 sample

AEC No.	AEC	Potentially Effected Media	Number of Sample Locations ¹	Analysed Contaminants of Concern
3. Chemical Storage	Vehicle Maintenance Building	Soil	4	Heavy metals – 6 samples, PAHs – 6 samples TRH – 5 samples, VOCs – 5 samples OCPs – 6 samples, PCBs – 4 samples Asbestos NEPM (500g) – 3 samples PFAS – 1 sample
		Groundwater	1	Heavy metals – 1 sample, PAHs (low level) – 1 sample TRH – 1 sample, VOCs – 1 sample EC, pH, alkalinity – 1 sample, 28 PFAs – 1 sample, Nitrate/Nitrile – 1 sample, Ammonia – 1 sample
	Liquid and Solid Chemical Store	Soil	3	Heavy metals – 5 samples, PAHs – 5 samples TRH – 4 samples, VOCs – 4 samples OCPs – 5 samples, PCBs – 3 samples Asbestos NEPM (500g) – 3 samples PFAS – 1 sample
		Groundwater	1	Heavy metals – 1 sample, PAHs (low level) – 1 sample TRH – 1 sample, VOCs – 1 sample EC, pH, alkalinity – 1 sample, 28 PFAs – 1 sample, Nitrate/Nitrile – 1 sample, Ammonia – 1 sample
4. Historic Buildings / Activities	Potential Former Industrial Area	Soil	7	Heavy metals – 12 samples, PAHs – 12 samples TRH – 6 samples, VOCs – 6 samples OCPs – 5 samples, PCBs – 6 samples Asbestos NEPM (500g) – 6 samples
	Former Building Footprint	Soil	7	Heavy metals – 9 samples, PAHs – 9 samples TRH – 2 samples, VOCs – 2 samples OCPs – 1 sample, PCBs – 2 samples Asbestos NEPM (500g) – 5 samples
	Potential Staging Area	Soil	3	Heavy metals – 3 samples, PAHs – 3 samples TRH – 1 sample, VOCs – 1 sample PFAS – 1 sample

AEC No.	AEC	Potentially Effected Media	Number of Sample Locations ¹	Analysed Contaminants of Concern
5. Evaporation Trenches / Septic	Former Waste Water Area	Soil	6	Heavy metals – 11 samples, PAHs – 11 samples TRH – 7 samples, VOCs – 8 samples OCPs – 7 samples, PCBs – 3 samples Asbestos NEPM (500g) – 5 samples Asbestos (presence/absence) – 1 Fragments Biological/Bacteria (E.coli, faecal coliforms, Salmonella) – 2 samples PFAS – 1 sample
	Septic Tank	Soil	1	Heavy metals – 2 samples, PAHs – 2 samples TRH – 1 sample, VOCs – 1 sample OCPs – 1 sample, PCBs – 1 sample Asbestos NEPM (500g) – 1 sample Biological/Bacteria (E.coli, faecal coliforms, Salmonella) – 1 sample
6. Balance of Site	Site Soils	Soils	100	Heavy metals – 118 samples, PAHs – 121 samples TRH – 53 samples, VOCs – 53 samples OCPs – 47 samples, PCBs – 28 samples Asbestos NEPM (500g) – 40 samples Asbestos (presence/absence) – 1 Fragment SPOCAS – 3 samples, PFAS – 10 samples Ecological parameters – 4 samples
	Old Drainage Pathways and Dam Sediments	Sediment	4	Heavy metals – 4 samples, PAHs – 4 samples TRH – 3 samples, VOCs – 3 samples OCPs – 2 samples, PCBs – 2 samples Asbestos NEPM (500g) – 1 sample Biological – 1 sample, PFAS – 1 sample
	Site Groundwater	Groundwater	5	Heavy metals – 5 samples, PAH (low level) – 5 samples TRH – 5 samples, VOCs – 5 samples EC, pH, alkalinity – 5 samples, 28 PFAs – 5 samples Nitrate/Nitrite – 5 samples, Ammonia – 5 samples
	Site Surface Water (dams, water bodies)	Surface Water	8	Heavy metals – 8 samples, PAH (low level) – 8 samples TRH – 8 samples, VOCs – 8 samples EC, pH, alkalinity – 8 samples, 28 PFAs – 8 samples Nitrate/Nitrite – 8 samples, Ammonia – 8 samples

AEC No.	AEC	Potentially Effected Media	Number of Sample Locations ¹	Analysed Contaminants of Concern
Offsite AECs				
7. Groundwater	Munmorah and Colongra Power Stations PFAS Investigation Area	Soils	9	PFAS – 9 samples
		Groundwater	3	Heavy metals – 3 samples, PAHs (low level) – 3 samples, PFAS – 3 samples
	Doyalson Fire Station	Groundwater	3	Heavy metals – 3 samples, PAHs (low level)– 3 samples, PFAS – 3 samples PFAS – 3 samples
	Metro Petroleum Service Station	Groundwater	3	Heavy metals – 3 samples, PAHs (low level)– 3 samples, TRH – 3 samples, VOCs – 3 samples
	Manning Lake ash and slag dam	Groundwater	2	Heavy metals – 2 samples, PAHs (low level)– 2 samples, TRH – 2 samples, VOCs – 2 samples, PFAS – 2 samples

¹ It is noted that some of the sample locations represent multiple AECs.

²Soil Ecological Parameters - Organic Matter (OM), Fe, Cation Exchange Capacity (CEC), pH

6.5 Duplicate and Triplicate Sample Preparation

Soil, groundwater and surface water duplicate and triplicate samples were obtained during sampling using the above sampling methods. The collected samples were then divided laterally into three samples with minimal disturbance to reduce the potential for loss of volatiles and placed in the appropriate container or sample bag. Each sample was then labelled with a primary, duplicate or triplicate sample identification before being placed in the same chilled esky for laboratory transport.

6.6 Decontamination

Prior to the commencement of sampling activities, non-disposable sampling equipment, including shovel/hand auger, IP and sampling pole were cleaned with a water/detergent spray, rinsed with water and then air dried. The equipment was then inspected to ensure that no soil, oil, debris or other contaminants were apparent on the equipment prior to the commencement of works. Sampling equipment was subsequently decontaminated using the above process between each sampling location. Decontamination and calibration certificates for field works are provided in **Appendix I**.

New nitrile gloves were utilised for the collection of each soil sample to avoid cross contamination between samples and locations.

6.7 Laboratory Analysis

JBS&G contracted Eurofins | MGT (Eurofins) as the primary laboratory all analyses. The secondary laboratory for the investigation was Envirolab Services Pty Ltd (Envirolab). Both laboratories are NATA accredited for all analytes. In addition, the laboratories were required to meet JBS&G's internal QA/QC requirements. Laboratory analysis of samples was conducted as summarised in **Table 6.3**. Copies of the laboratories Certificates of Analysis are provided in **Appendix J**.

In addition to the above analyses, for QA/QC purposes field duplicates and triplicates were analysed at a rate of 1/19 for soil, 1/8 for groundwater and 1/5 surface water primary samples. Rinsate samples were obtained from all reusable sampling equipment per day of sampling, and trip spike and trip blank samples accompanied the soil, surface water and groundwater samples for each batch of samples submitted to the laboratory

7. Assessment Criteria

7.1 Regulatory Guidelines

The assessment of contaminant data for this preliminary investigation was undertaken with consideration to aspects of the following guidelines, as relevant:

- *National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended 2013)*, National Environment Protection Council (NEPC 2013);
- *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites*, NSW EPA, 2011 (OEH 2011);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, 2017 (NSW EPA 2017); and
- *NSW EPA Sampling Design Guidelines*, September 1995 (NSW EPA 1995).

7.2 Soil/Sediment Criteria

On the basis that the site is proposed to be developed into a mixture of residential, retail/commercial and recreational/open space and in the absence of detailed design plans soil data has been compared against the most conservative published guidelines made or endorsed by the NSW EPA (HIL/HSL A), as outlined below and shown in **Table A (1)** and **(2)**:

- NEPC (2013) Health Investigation Levels (HILs)/Health Screening Levels (HSLs): Residential with Access to Soils (HIL/HSL A);
- Ecological Investigation Levels (EILs), and Ecological Screening Levels (ESLs) including site-specific EILs for both fill and natural materials, for Residential with Access to Soils land use (fill - fine grained, natural – coarse grained), consistent with NEPC (2013);
- HSLs for petroleum hydrocarbons considering potential for vapour intrusion, both fine and coarse grained (dependant on fill/natural material) as provided in NEPC (2013);
- Biological data was compared against stabilisation Grade A Microbiological Standards presented in the NSW EPA (1997) Biosolids Guidelines;
- Direct contact HSLs provided in CRCCARE (2011¹⁷);
- Management limits provided in NEPC (2013); and
- PFAS National Environment Management Plan (2018) for PFAS in soil

Where there are no NSW EPA endorsed thresholds for individual COPC the laboratory limit of reporting (LOR) was adopted as an initial screening value for the purpose of this assessment.

JBS&G note that consideration was given to different soil texture groups based on encountered lithology.

7.2.1 Sediment Sample Criteria

Sediment analytical data for this assessment has been compared against the following sediment criteria, and are presented in **Table B**

- ANZECC/ARMCANZ Sediment Quality Guidelines¹⁸

¹⁷ *Technical Report No.10 Health screening levels for petroleum hydrocarbons in soil and groundwater Part 2: Application*. Australia Guidance, September 2011, CRC for Contamination Assessment and Remediation of the Environment (CRCCARE 2011)

¹⁸ *Simpson SL, Batley GB and Chariton AA (2013). Revision of the ANZECC/ARMCANZ Sediment Quality Guidelines. CSIRO Land and Water Science Report 08/07. CSIRO Land and Water.*

7.2.2 Derivation of Site-Specific Ecological Investigation Levels

Site specific EILs were calculated using the NEPC EIL Calculator¹⁹ and laboratory analysis of five representative soil samples (BH22_0.0-0.1, BH25_5.5-5.6, BH69_0.0-0.1, BH78_0.3-0.4 and BH152_2.9-3.0). Due to the predominate lithology of the site consisting sandy clay a Clay % of 10 was adopted. Representative sample laboratory analysis used in the derivation of EILs is presented in **Table 7.1** and Site Specific EILs shown in **Table 7.2**.

Table 7.1: Derivations of EILs

Physical Parameters			
Sample	CEC (meq/100g)	pH (pH units)	Material Type
BH22_0.0-0.1	3.6	5.8	Fill
BH25_5.5-5.6	2.6	5.3	Natural
BH69_0.0-0.1	0.9	5.1	Natural
BH78_0.3-0.4	1.6	5.1	Natural
BH152_2.9-3.0	13	6.9	Fill
Average (Fill):	8.3	6.4	
Average (Natural):	1.7	5.2	

Site-specific values for Fill (CEC (8.3 mg/kg) and pH (6.4 pH) and Natural (CEC (1.7 mg/kg) and pH (5.2 pH) were adopted resulting in the following analyte criteria.

Table 7.2: Site Specific EILs

Site Specific EILs		
Analyte	mg/kg (Fill)	mg/kg (Natural)
Arsenic	100	100
Chromium (III)	640	640
Copper	180	50
DDT	180	180
Lead	1100	1100
Naphthalene	170	170
Nickel	110	8
Zinc	420	150

7.3 Groundwater Criteria

Groundwater analytical data for this assessment has been compared against the following groundwater criteria, and are presented in **Table C**:

- 95% protection of species in freshwater ecosystems presented in ANZG (2018)
 - Hardness correction factor to be applied to default criteria.
- HSLs for vapour intrusion (residential with access to soil land uses) for both fine and coarse grained soils for groundwater sources between 2 – 4 and 4 - 6 m bgs.
- Australia Drinking Water Guidelines²⁰ (ADWG) (2011 amended 2018) Drinking Water, Recreational (x10) and Aesthetics.
- NEPM 2018 - PFAS National Environmental Management Plan-
- Guideline values for the protection of fresh water ecosystems have been adopted noting the site forms part of the catchment for Colongra Lake. Recreational criteria are based on guidance in NHMRC (2008) which indicates concentrations of substances 10 times drinking water values.

¹⁹ *Ecological Investigation Level Calculation Spreadsheet*. Developed by CSIRO for the National Environment Protection Council, 2010.

²⁰ *National Water Quality Management Strategy Australian Drinking Water Guidelines 6, 2011 Version 3.5 Updated August 2018* – National Health and Medical Research Council (NHMRC)

7.4 Surface Water Criteria

Surface water analytical data for the site has been compared against the following groundwater criteria, and are presented in **Table D**:

- 95% protection of species in freshwater ecosystems presented in ANZG (2018).
- HSLs for vapour intrusion (residential with access to soil land uses) for both fine and coarse grained soils for groundwater sources between 2 – 4 and 4 - 6 m bgs;
- ADWG (2011 amended 2018) Drinking Water, Recreational (x10) and Aesthetics.
- NEPM 2018 - PFAS National Environmental Management Plan

Guideline values for the protection of fresh water ecosystems have been adopted noting the site forms part of the catchment for Colongra Lake. All surface water receptors are considered to be dominated by fresh water conditions in proximity to the site.

8. Quality Assurance / Quality Control

An assessment of QA/QC was undertaken by calculation of DQIs for the data generated as part of the assessment activities as outlined in **Section 6.1.6**.

The assessment of site suitability has been assessed against the PARCCS parameters of Precision, Accuracy, Representativeness, Completeness, Comparability and Sensitivity as presented in **Appendix K**.

The field sampling, inspection and handling procedures produced QA/QC results which indicated that the data set is of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results indicate that the project laboratories were generally achieving levels of performance within their recommended control limits during the period when the samples from this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the data set is of an acceptable quality upon which to draw conclusions regarding the environmental condition of the assessment area.

9. Discussion of Results

9.1 Soil/Sediment Investigation Results

9.1.1 Soil/Sediment Observations

Field observations as encountered at the site during the intrusive investigation are summarised below. Sample locations are shown on **Figures 5A** and **5B** and a summary of soil and sediment analytical data with comparison to the adopted site criteria is presented in **Table A** and **B** respectively. Bore logs are provided in **Appendix G**.

The majority of the site comprised natural soils as discussed following. Fill materials were observed at 91 locations to a maximum depth of 4.4 m bgs (TP153 and BH152) and comprised the following;

- Sports field fill contained two distinct types (periods of filling) as discussed in **Section 2.1**:
 - In the western portion (original cut and fill area pre 1974); dry to damp orange and light brown sandy clay and clayey sand with trace inclusions of wet heterogeneous brown sands, and sandy silty clays with inclusions at some locations of asphalt, sandstone and igneous gravels and roots; and
 - In the southern and eastern portion (1994 – 2005); dry to wet dark grey, orange and brown sandy gravelly clay / sandy clay with inclusions of; roots, gravels, corrugated iron, astroturf, PVC piping, plastics, concrete, sandstone gravels, tree stumps, timber, bitumen, tyres, band saw blades, plastic matting, bonded building material fragments and brick;
- Stockpile fill (TP49, TP52, TP53, TP63, TP64, TP97, TP139 - TP141 and TP152): dry to moist clayey sands, sandy clays and silty clays with inclusions of sandstone and ironstone gravels, roots, roadbase gravels, asphalt, concrete;
- Carpark fill: dry to damp gravelly silty sands with inclusions of roadbase gravels, asphalt (due to borehole advancement methods, e.g. BH001) and concrete; and
- Site wide fill: dry to damp gravels, silty sand, sandy clay and clayey sand with inclusions of plastic, rootlets and roots.

Trace levels of inert anthropogenic inclusions were present in locations across the site. Significant inert anthropogenic inclusions were identified in the eastern and southern sports field at locations TP08, TP10, TP23, TP24, TP35, TP36, TP144 and TP146 (**Photos 49, 50, 51 Appendix A**) and included; asphalt, brick, astroturf, terracotta pipe, timber, concrete blocks, plastics PVC and metal piping, corrugated iron, band saw blades, plastic matting, tyres, bonded building material fragments;

Natural soils were observed underlying fill at all locations, with the exception of TP08, TP23, TP24, TP36, TP140, TP145 and TP146 where test pits were terminated before natural was encountered due to depth limits of excavator. Natural soils were identified as brown with orange mottling, orange, red and white clayey sands, sandy clays and sandstone inclusions of minor roots/rootlets and ironstone gravels. This is comparable to the soil landscape described in **Table 2.2**. It is anticipated that natural soils would be generally encountered at or near the ground surface across a majority of the site, with the exception of raised and constructed landforms such as the sports fields and within the vicinity of gravelled roadways, carparks and site structures.

Sediment was encountered at four locations (BH13, TP86, TP151 and TP152) which targeted ephemeral drainage lines and current surface water features, and was generally damp clay or silty/sandy clay, with inclusions of gravels, asphalt and rootlets.

9.1.2 Soil Analytical Results

9.1.2.1 Heavy Metals

Concentration of heavy metals in soil samples were reported to be below the adopted site assessment criteria, with the exception of chromium and nickel, which reported exceedances as follows;

- Site Specific EILs for fill material chromium criterion of 640 mg/kg; TP155_0.0-0.05 (1200 mg/kg) and TP155_0.05-0.15 (220 mg/kg); and
- Site Specific EILs for fill material nickel criterion of 110 mg/kg; TP155_0.0-0.05 (420 mg/kg)

Review of samples TP155_0.00-0.05 and TP155_0.05-0.15 indicate they were taken in road base fill, and with consideration to this, the above exceedances are considered to be due to the presence of igneous gravels within a matrix, therefore not readily accessible for plant uptake. Given this JBS&G do not consider this to represent an unacceptable ecological risk.

9.1.2.2 Polycyclic Aromatic Hydrocarbons

PAH concentrations in soil samples were all reported to be below the adopted site assessment criteria, with the exception of benzo(a)pyrene, which reported exceedances as follows;

- Exceedance of health based criterion for carcinogenic PAHs of 3mg/kg at BH001/MW01 0.0-0.1 (30.4 mg/kg);
- NEPM 2013 ESL Urban Residential and Public Open Space, coarse (sand material) benzo(a)pyrene criterion of 0.7 mg/kg; BH001/MW01 0.0-0.1 (18 mg/kg); and
- NEPM 2013 ESL Urban Residential and Public Open Space, fine (sandy clay material) benzo(a)pyrene criterion of 0.7 mg/kg; TP33_0.9-1.0 (1.7 mg/kg).

BH001 was located in the asphalt paved carpark of the RSL facility. Review of borelogs indicate BH001/MW01_0.0-0.1 potentially had asphalt present in silty sand fill and the elevated concentrations of carcinogenic PAHs including benzo(a)pyrene was likely due to these observed asphalt inclusions (**Section 9.1.1**). The reported PAH impact is shallow and below engineered asphalt paving provided for car parking and is unlikely to pose a human-health or ecological risk under current use.

Regarding elevated benzo(a)pyrene at TP33_0.9-1.0, and as per **Section 6.1.5**, statistical analysis (**Appendix L**) of the fill material in the sports field dataset shows the reported concentration is less than 250 % of the adopted criterion, the standard deviation of the data set is less than 50 % of the adopted criterion and the 95 % UCL of the average concentration of benzo(a)pyrene for the data set is below the adopted criterion. Furthermore, NEPM Schedule B7 (Appendix A2 the derivation of PAHs and Phenols) guidance has informed that plants grown on PAH contaminated soil have only limited ability to take in and incorporate anthropogenic PAHs through their roots and into their biomass. Additionally, the exceedance in TP33 was identified at a depth greater than 0.5 m bgs, past the likely extent of shallow roots systems of the area. As such, it was concluded that benzo(a)pyrene ecological exceedance at TP33_0.9-1.0 does not represent an unacceptable risk requiring remediation or management.

9.1.2.3 Total Recoverable Hydrocarbons

No TRH compounds were detected above the given criteria in soil sampled.

9.1.2.4 Volatile Organic Compounds

No VOC compounds were detected above the given criteria in soil sampled.

9.1.2.5 Organochlorine Pesticides

No OCP compounds were detected above the given criteria in soil sampled.

9.1.2.6 Polychlorinated Biphenyls

No PCB compounds were detected above the given criteria in soil sampled.

9.1.2.7 PFAS

No PFAS compounds were detected above the laboratory LOR in soil sampled.

9.1.2.8 Asbestos

All soil samples submitted for friable asbestos analysis returned a non-detect result.

Four of the six fragments of bonded material submitted for asbestos presence / absence determination returned a positive result as follows: ;

- Chrysotile and amosite asbestos detected in TP35 FRAG01, TP35 FRAG02 and TP36 FRAG01; and
- Chrysotile asbestos detected in BH153 FRAG-01.

9.1.2.9 Biological

No thermotolerant coliforms or E.coli were detected above the laboratory limit of reporting. All samples reported a non-detect salmonella result.

9.1.3 Sediment Analytical Results

9.1.3.1 Heavy Metals

Concentrations of heavy metals in sediment samples were reported to be below the adopted site assessment criteria.

9.1.3.2 Polycyclic Aromatic Hydrocarbons

Concentrations of PAHs in sediment samples were reported to be below the adopted site assessment criteria.

9.1.3.3 Total Recoverable Hydrocarbons

Concentrations of TRHs in sediment samples were reported to be below the adopted site assessment criteria.

9.1.3.4 Organochlorine Pesticides

Concentrations of OCPs in sediment samples were reported to be below the adopted site assessment criteria.

9.1.3.5 Polychlorinated Biphenyls

Concentrations of PCBs in sediment samples were reported to be below the adopted site assessment criteria.

9.1.3.6 PFAS

No PFAS compounds were detected above the laboratory LOR in soil sampled.

9.1.3.7 Asbestos

All soil samples submitted for friable asbestos analysis returned a non-detect result.

9.1.3.8 Biological

One sample was submitted for biological resulting in a non-detect salmonella and no thermotolerant coliforms or E.coli detected above the laboratory limit of reporting

9.2 Groundwater Investigation Results

9.2.1 Groundwater Observations

A summary of groundwater conditions encountered during the sampling event is presented in **Table 9.1** and **Table 9.2** below. Groundwater monitoring well locations are shown on **Figure 5**. Field notes are included in **Appendix H**.

Table 9.1: Groundwater Field Physiochemical Parameters

Well Reference	Depth to Groundwater (m below top of casing)	Dissolved Oxygen (mgL/ppm)	Electrical Conductivity (μ S/cm)	pH (units)	Oxidation Reduction Potential (mV ¹)	Temperature (°C)
MW01	4.009	0.39	4796	6.10	39.2	21.7
MW02	3.346	0.81	4846	6.82	-263.6	18.3
MW03	3.316	1.27	304	5.17	224.2	18.9
MW04	1.674	0.3	395	4.80	178.9	15.9
MW05	4.094	0.31	105	4.80	275.6	19.7
MW06	2.995	0.17	1274	7.14	-475.2	17.7
MW07	6.403	0.40	650	5.94	-370.4	17.9
MW08	2.058	4.19	767	4.93	159.9	14.5

¹ Results in table are field readings

Table 9.2: Groundwater Field Observations

Well Reference	Odour	Sheen	Turbidity	Colour
MW01	Non-odorous	No sheen	Clear	Colourless
MW02	Non-odorous	No sheen	Clear	Colourless
MW03	Non-odorous	No sheen	Clear	Colourless
MW04	Non-odorous	No sheen	Clear	Colourless
MW05	Non-odorous	No sheen	Turbid to clear	Light brown to clear
MW06	Non-odorous	No sheen	Clear	Colourless
MW07	Non-odorous	No sheen	Turbid to slightly turbid	Light brown
MW08	Non-odorous	No sheen	Clear	Colourless

Groundwater was observed to be variable across the site, as follows:

- Clear to turbid, colourless to light brown. No sheen.
- Acidic (MW01, MW03, MW04, MW05, MW07, MW08) to circum-neutral (MW02, MW06)
- Reducing at MW02, MW06 and MW07. Oxidising at other wells.
- Brackish to saline at MW01, MW02, MW06. Fresh at other wells.

An inferred groundwater contour map created with use of data provided from a registered surveyor (**Appendix M**) and depth to standing water levels taken on 19 August 2019 shown in **Table 9.1** is presented in **Figure 7**. The inferred groundwater flow direction across the site is east, generally following the site topography.

9.2.2 Groundwater Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix J**. Summarised groundwater analytical results are presented in **Table B** and discussed in the following sections.

9.2.2.1 Heavy Metals

Heavy metals concentrations in groundwater samples were all reported to be below the adopted site assessment criteria, with the exception of copper, lead, nickel and zinc, which reported exceedances as follows;

- ADWG 2018 – Drinking Water lead criterion of 0.01 mg/L; MW07 (0.024 mg/L);
- ADWG 2018 – Drinking Water nickel criterion of 0.02 mg/L; MW01 (0.037 mg/L);
- ANZG 2018 95% protection level for Fresh Water copper criterion of 0.0014 mg/L at MW01 (0.003 mg/L), MW03 (0.003 mg/L), MW05 (0.004 mg/L), MW06 (0.002 mg/L), MW07 (0.022 mg/L) and MW08 (0.002 mg/L);
- ANZG 2018 95% protection level for Fresh Water lead criterion of 0.0034 mg/L; MW03 (0.004 mg/L) and MW05 (0.004 mg/L);
- ANZG 2018 95% protection level for Fresh Water nickel criterion of 0.011 mg/L; MW07 (0.018 mg/L)
- ANZG 2018 95% protection level for Fresh Water zinc criterion of 0.008 mg/L; MW01 (0.098 mg/L), MW02 (0.04 mg/L), QA01_GME (0.028 mg/L), QC01_GME (0.039 mg/L), MW03 (0.026 mg/L), MW05 (0.03 mg/L), MW06 (0.05 mg/L), MW07 (0.064 mg/L); and MW08 (0.034 mg/L).

When consideration is given to the hardness correction factor (**Section 7.3**), only the following samples remained above the NEPM 2013 95% protection level for Fresh Water criterion;

- Copper - MW07 (0.022 mg/L); and
- Lead - MW07 (0.024 mg/L).

9.2.2.2 Polycyclic Aromatic Hydrocarbons (low level)

No PAH compounds were detected above the laboratory LOR in groundwater sampled.

9.2.2.3 Total Recoverable Hydrocarbons

No TRH compounds were detected above the given criteria in groundwater sampled.

9.2.2.4 Volatile Organic Compounds

No VOC compounds were detected above the site criteria in groundwater sampled.

9.2.2.5 PFAS

PFAS was reported at MW01 and MW04. Criteria have been published for perfluorooctanoic acid (PFOA) and perfluorohexane sulfonate and perfluorooctane sulphonate (PFHxS+PFOS).

- The PFAS NEMP Drinking Water criterion for PFOA of 0.56 ug/L was not exceeded at MW01 (<0.01 ug/L) or MW04 (0.02 ug/L).
- The PFAS NEMP Freshwater 95 % criterion for PFOS of 0.13 ug/L was not exceeded at MW01 (0.03 ug/L) or MW04 (0.05 ug/L).
- The PFAS NEMP Drinking Water criterion for PFHxS+PFOS of 0.07 ug/L was exceeded at MW01 (0.08 ug/L) and at MW04 (1.45 ug/L).
- The PFAS NEMP Recreational Water criterion for PFHxS+PFOS of 0.7 ug/L was exceeded at MW04 (1.45 ug/L).

No PFAS was reported at any other well on site.

9.2.2.6 Nutrients

Nutrients analysed as Nitrate (as N) and Nitrite (as N) were detected below site criteria in all samples analysed;

9.2.2.7 Ammonia

Ammonia was either less than laboratory LOR or was detected at concentrations below the default trigger value of 0.9 mg/L.

9.3 Surface Water Observations

A summary of surface water conditions encountered during the sampling event is presented in **Table 9.3** below. Surface water locations are shown on **Figure 5**. Field notes are included in **Appendix H**.

Table 9.3: Surface Water Field Observations

Sample ID	Odour	Sheen	Turbidity	Colour	Organic / Environment
SW01	Non-odorous	No sheen	Turbid	Brown	In vegetation, run off from gravel parking area likely. QA/QC01_SW taken.
SW02	Non-odorous	No sheen	Turbid	Brown	Endurance course water feature.
SW03	Non-odorous	No sheen	Turbid	Brown	Endurance course water feature.
SW04	Non-odorous	No sheen	Turbid	Brown	Endurance course water feature.
SW05	Stale odour	No sheen	Turbid	Brown	In vegetation. reeds in water body, stale.

9.3.1 Surface Water Analytical Results

9.3.1.1 Heavy Metals

Heavy metals concentrations in surface water samples were all reported to be below the adopted site assessment criteria, with the exception of copper, lead and zinc which reported exceedances as follows;

- ADWG 2018 – Drinking Water lead criterion of 0.01 mg/L at SW04 (0.012 mg/L);
- ANZG 2018 95% protection level for Fresh Water copper criterion of 0.0014 mg/L; SW01/QA01_SW (0.003 mg/L);
- ANZG 2018 95% protection level for Fresh Water lead criterion of 0.0034 mg/L at SW01 (0.004 mg/L), SW02 (0.005 mg/L) and SW05 (0.009 mg/L); and
- ANZG 2018 95% protection level for Fresh Water; zinc criterion of 0.008 mg/L at SW01 (0.021 mg/L), SW02 (0.012 mg/L), SW03 (0.018 mg/L), SW04 (0.02 mg/L) and SW05 (0.33 mg/L)

9.3.1.2 Polycyclic Aromatic Hydrocarbons (low level)

No PAH compounds were detected above the laboratory LOR in groundwater sampled.

9.3.1.3 Total Recoverable Hydrocarbons

No TRH compounds were detected above the given criteria in groundwater sampled.

9.3.1.4 Volatile Organic Compounds

No VOC compounds were detected above the site criteria in groundwater sampled.

9.3.1.5 PFAS

No PFAS compounds were detected above the site criteria in surface water sampled, however PFAS was reported at SW02 however:

- The PFAS NEPM Drinking Water criterion for PFOA of 0.56 ug/L was not exceeded at SW02 (0.07 ug/L). The Recreational Water criterion (5.6 ug/L) was not exceeded.
- The PFAS NEPM Freshwater 95 % criterion for PFOS of 0.13 ug/L was not exceeded at SW02 (0.05 ug/L).
- The PFAS NEMP Drinking Water criterion for PFHxS+PFOS of 0.07 ug/L was not exceeded at SW02 (0.05 ug/L). The Recreational Water criterion (0.7 ug/L) was not exceeded.

No PFAS was reported in any other surface water sample collected.

9.3.1.6 Nutrients

Nutrients analysed as Nitrate (as N) and Nitrite (as N) were detected below site criteria in all samples analysed;

9.3.1.7 Ammonia

Ammonia was detected in all surface water samples below the site criteria with the exception of;

- ANZG 2018 95% protection level for Fresh Water criterion of 0.9 mg/L at SW02 (1.6 mg/L); and
- ADWG 2018 – Aesthetics criterion of 0.5 mg/L; SW03 (0.57 mg/L).

9.4 Aesthetic Issues

Fragments of bonded material were observed at five locations and of these four samples from three locations were confirmed as asbestos containing material (ACM): TP35 (x2), TP36 and BH153. No friable asbestos was reported in any of the 91 soil samples assessed.

Anthropogenic materials above trace levels were identified at sample locations TP08, TP10, TP23, TP24, TP35, TP36, TP144 and TP146 (see **Photos 49, 50, 51 Appendix A**).

The identified ACM and anthropogenic issues are localised to the eastern and southern portions of the sports fields.

10. Site Characterisation

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017) and discussed in **Section 6.1.5**, the decisions required to be made are discussed below.

10.1 Are there any unacceptable risks to likely onsite future receptors?

Soil

With the exception of the presence of bonded asbestos in fill to the north east of the sports fields (**Figure 6A**), concentrations of COPCs were reported below the adopted site criteria for the protection of human health when considered for the most sensitive land use – residential with accessible soils. Non-friable asbestos was detected in samples TP35 FRAG01, TP35 FRAG02, TP36 FRAG01 and BH153 FRAG-01. Two distinct periods of cut and fill activities and filling appear to have occurred in creation of these fields (**Section 3.1**), with the eastern most fields back filled around the early 2000s. Further investigations are required to ascertain whether the occurrence of bonded asbestos in this area of the sports fields represent an unacceptable risk to human health in accordance with NEPM 2013.

Carcinogenic PAHs exceeding health-based criteria (HIL-A) were reported in shallow fill at BH01. BH01 was located in the asphalt paved carpark, and asphalt fragments were observed in fill just below the pavement. The carcinogenic PAHs are likely associated with the asphalt pavement. There is no risk under current land use as a car park servicing the RSL building. Future redevelopment will require demolition of the carpark pavement and the detected shallow material associated with the pavement would be removed at that time.

Sediment

In all four sediment samples submitted concentrations of COPCs were reported below the adopted sediment site criteria.

Groundwater

With the exception of some heavy metals and PFAS (**Figure 6B**) all other COPCs were reported below the adopted site criteria.

Concentrations of copper and lead are considered to represent background concentrations of the area. As such, JBS&G do not consider that the reported concentrations are the result of the contribution of contaminant load to groundwater beneath the site and are likely the result of host-rock interactions with migrating groundwater.

While PFAS exceeded the drinking water criteria, given the saline nature of groundwater on site, reticulated drinking water supply and there being no water bores used for irrigation or consumption down gradient (**Section 2.7**), groundwater is not considered a potable resource for beneficial use. In addition, as discussed within **Section 3.3.1** land downgradient of site is located in a PFAS investigation area therefore testing and analysis of groundwater would be required prior to consideration for beneficial use.

As discussed in **Section 9.1.2**, PFAS in soil has been reported below the laboratory LOR and given consideration to the groundwater contours shown in **Figure 7**, it is considered that PFAS concentrations in groundwater are representative of regional off-site conditions and not resultant from site fill soil conditions.

Surface Water (Dams)

With the exception of some heavy metals and ammonia (**Figure 6B**) all other COPCs were reported below the adopted site criteria.

As with groundwater, concentrations of copper, lead and zinc are considered to represent background concentrations of the area. As such JBS&G do not consider that the reported concentrations are the result of contribution from the site.

Ammonia was reported in excess of the adopted site criteria for samples SW02 and SW03. During future development activities management of surface water bodies will be required such that surface water does not represent an unacceptable ecological risk.

The answer is 'Yes'.

10.2 Are there any issues relating to the local area background soil concentrations that exceed appropriate and applicable criteria?

Issues relating to background soil contamination presenting an unacceptable risk to human and ecological receptors at the site were not identified. The answer is 'No'.

10.3 Are there any chemical mixtures?

There were no potential chemical mixtures identified during the investigation that may pose an unacceptable contamination issue with respect to current and permissible land uses. The answer is 'No'.

10.4 Are there any aesthetic issues?

No staining, odorous or above trace anthropogenic inclusions were identified across the majority of the site with the exception of bonded asbestos (at locations TP35, TP36, BH153) and anthropogenic inclusions identified in filling confined to the eastern and southern portions of the sports fields at locations TP08, TP10, TP23, TP24, TP35, TP36, TP144 and TP146.

As discussed in **Section 3.1**, two distinct periods of cut and fill activities and filling appear to have occurred in creation of the sports fields. Further investigations are required to quantify the size of the impact and remove or manage any material representing an aesthetic issue.

The answer is 'Yes'.

10.5 Is there any evidence of, or potential for, migration of contaminants from the site?

The potential for migration of contaminants from the site is low, based on the following:

- Site investigations did not identify any significant contamination in soil and groundwater; and
- The exceedances of site criteria found in groundwater heavy metals are considered to be representative of urban regional background concentration levels. The level of contaminants migrating on to and from site are consistent therefore there is no requirement for future management; and
- No PFAS was reported in fill or natural material at the site. The PFAS occurrences in groundwater at MW01 and MW04 can be attributed to regional background levels, particularly as areas to the south and immediately east of site are designated PFAS investigation areas.
- The answer is 'No'.

10.6 Is the site suitable?

Asbestos and inert anthropogenic materials were reported in soils at limited locations at the eastern and southern portions of the sporting fields. These impacts represent health-based and aesthetic issues for proposed future use of the site. On this basis, remediation/management of the identified impacts are required for the site to be considered suitable for the proposed development.

11. Conclusions and Recommendations

11.1 Conclusions

Based on the findings of this investigation, and subject to the limitations in **Section 12**, the following conclusions are made:

- Total of 165 soil sample locations were advanced across the site. With the exception of isolated area of filling in the carpark around the RSL, the sports field and stockpiles in the central portion of the site, the site is generally underlain by sandy clays to clayey sands;
- Analysis of selected samples of surficial and sub-surface soils and sediment for a broad range of COPCs including heavy metals, PAHs, TRH/VOCs, OCPs/PCBs, PFAS, asbestos and biological impacts. All concentrations were below the health-based assessment criteria with the exception of:
 - Non-friable asbestos fragments at sample locations TP35, TP35, TP36, and BH153, this material is considered to represent an aesthetic issue and a potential human health issue requiring remediation or management;
 - Isolated anthropogenic materials in fill at sample locations TP08, TP10, TP23, TP24, TP35, TP36, TP144 and TP146 and is confined to a limited area within the eastern and southern portions of the sports field. This material is considered to represent an aesthetic issue requiring remediation or management;
 - It is noted that, while asbestos was identified in isolated samples, observations of inert waste and other building-material related inclusions were noted, indicating the potential for more widespread asbestos impact within this discrete fill profile; and
 - The impacted fill material is confined to a dry to wet dark grey, orange and brown sandy gravelly clay / sandy clay material and associated with the importation of fill to extend the sports fields between 1994 and 2005 as discussed in **Section 2.1**.
- Carcinogenic polycyclic aromatic hydrocarbons (PAHs) were reported at a concentration that exceeded sensitive land use criteria in shallow fill just below the asphalt pavement of a car park at location BH001. This occurrence was likely associated with the asphalt pavement of the car park and would be removed as part of pavement demolition during future redevelopment works. It does not represent an unacceptable risk to current or future site users.
- Analysis of selected samples of groundwater for a broad range of COPCs including heavy metals, PAHs, TRH/VOCs, OCPs, PCBs, PFAS and nutrients. All concentrations were below the health-based assessment criteria with the exception of:
 - Copper and lead at MW07; and
 - PFAS at MW01 and MW04;
- Heavy metal concentrations in groundwater are considered to represent background concentrations of the area.
- PFAS was reported in groundwater at monitoring wells MW01 and MW04. PFHxS+PFOS exceeded the adopted drinking water criterion at MW04. PFHxS+PFOS exceeded the adopted recreational water criterion (10 x drinking) at MW04
 - No PFAS was reported in soil at the site. Areas to the south and immediately east of site are designated PFAS investigation areas. It is considered that these PFAS occurrences in groundwater can be attributed to regional background levels. There is a reticulated drinking water supply and there is no known beneficial use of groundwater at or in the

vicinity of the site. Given this, remediation/management of groundwater on site is not considered to be necessary;

- Analysis of selected samples of surface water for a broad range of potential COPCs including heavy metals, PAHs, TRH/VOCs, OCPs, PCBs, PFAS, ammonia and nutrients. All concentrations were below the health-based assessment criteria with the exception of;
 - Copper at SW01/QA01_SW;
 - Lead at SW01, SW02, SW05 and SW04 (0.012 mg/L);
 - Zinc at SW01, SW02, SW03, SW04 and SW05; and
 - Ammonia at SW02 and SW03;
- Heavy metal and ammonia concentrations in surface water have exceeded the adopted site criteria, on this basis, during future redevelopment works, management will be required;
- Based on the findings of the investigations it is concluded the site can be made suitable for the proposed land use subject to remediation/management of non-friable (bonded) asbestos and aesthetic impacts in soil.

11.2 Recommendation

It is recommended that a Remedial Action Plan (RAP) be developed detailing the works required to manage and remove the identified asbestos and anthropogenic materials from soil in order to render the site suitable for proposed sensitive land, in accordance with SEPP 55 and other relevant guidelines; and

Given the presence of asbestos in soils at three locations in a section of the site that is currently being used for recreational purposes (sports fields) it is recommended that a human health risk assessment is undertaken to determine whether the risk to site users under current land use is not unacceptable.

12. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquires.

Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Figures



- Legend**
- Approximate Site Boundary
 - Coal Conveyour Systems



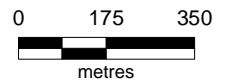
Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA Date 3/09/2019

Drawn By: AS/RF Checked By: RL

Scale 1:15,000



Coord. Sys. GDA 1994 MGA Zone 56

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

SITE LOCATION

FIGURE 1

	Easting	Northing
A	362737.407	6326401.156
B	363268.110	6326317.710
C	363167.179	6325795.900
D	363129.137	6325741.108
E	362510.288	6325839.129
F	362639.587	6326017.426



- Legend**
- Approximate Site Boundary
 - Stockpiles
 - Cadastre
 - Jemena Gasline



Job No: 56387

Client: Urbis Pty Ltd

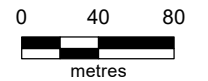
Version: R01 RevA

Date 6/09/2019

Drawn By: CA/AS

Checked By: RL

Scale 1:4,000



Coord. Sys. GDA 1994 MGA Zone 56

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

**SITE LAYOUT AND
FEATURES (CURRENT)**

FIGURE 2

	Easting	Northing
A	362737.407	6326401.156
B	363268.110	6326317.710
C	363167.179	6325795.900
D	363129.137	6325741.108
E	362510.288	6325839.129
F	362639.587	6326017.426



Legend

- ▭ Approximate Site Boundary
- ▭ Cadastre



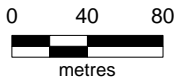
Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA Date 3/09/2019

Drawn By: AS Checked By: RL

Scale 1:4,000



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**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

SITE LAYOUT (PROPOSED)

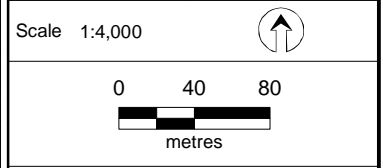
FIGURE 3



- Legend**
- Approximate Site Boundary
 - Cadastre
 - Jemena Gasline
 - 20m Easement
 - PFAS Investigation Area (By Others)
- AECs**
- 1. Filling
 - 2. Stockpiling
 - 3. Chemical Storage
 - 4. Historic Buildings/Activities
 - 5. Evaporation Trenches/Septic
 - 6. Surface Water



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 Client: Urbis Pty Ltd
 Version: R01 RevA Date 3/09/2019
 Drawn By: AS/RF Checked By: RL

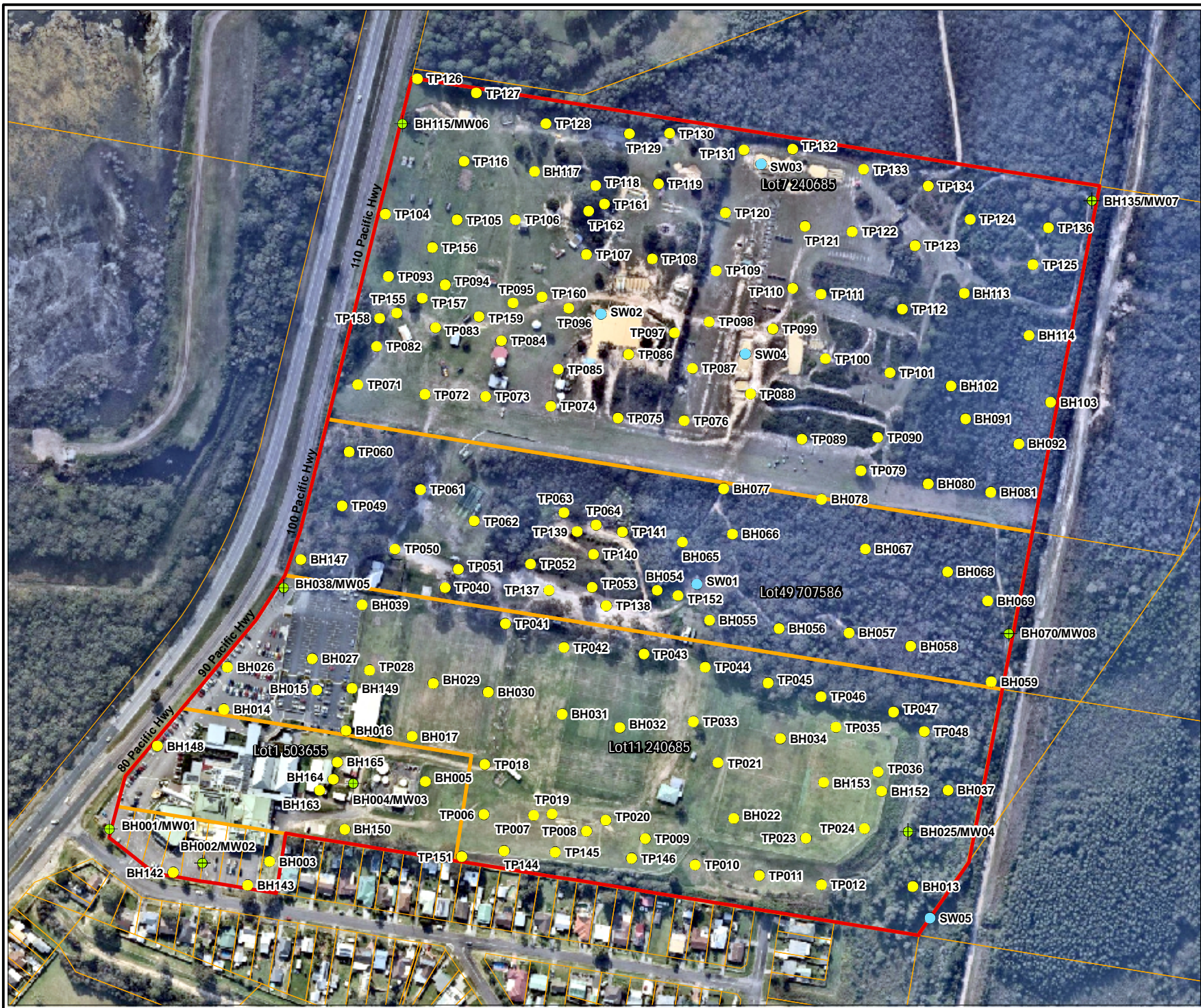


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**Pacific Hwy and Wentworth Ave,
 Doyalson NSW**

**AREAS OF ENVIRONMENTAL
 CONCERN**

FIGURE 4




Legend

- Approximate Site Boundary
- Cadastre

Sample Locations

- Borehole
- ⊕ Borehole/Monitoring well
- Surface water




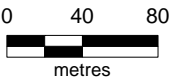
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Client: Urbis Pty Ltd

Version: R01 RevA	Date 3/09/2019
Drawn By: AS/RF	Checked By: RL

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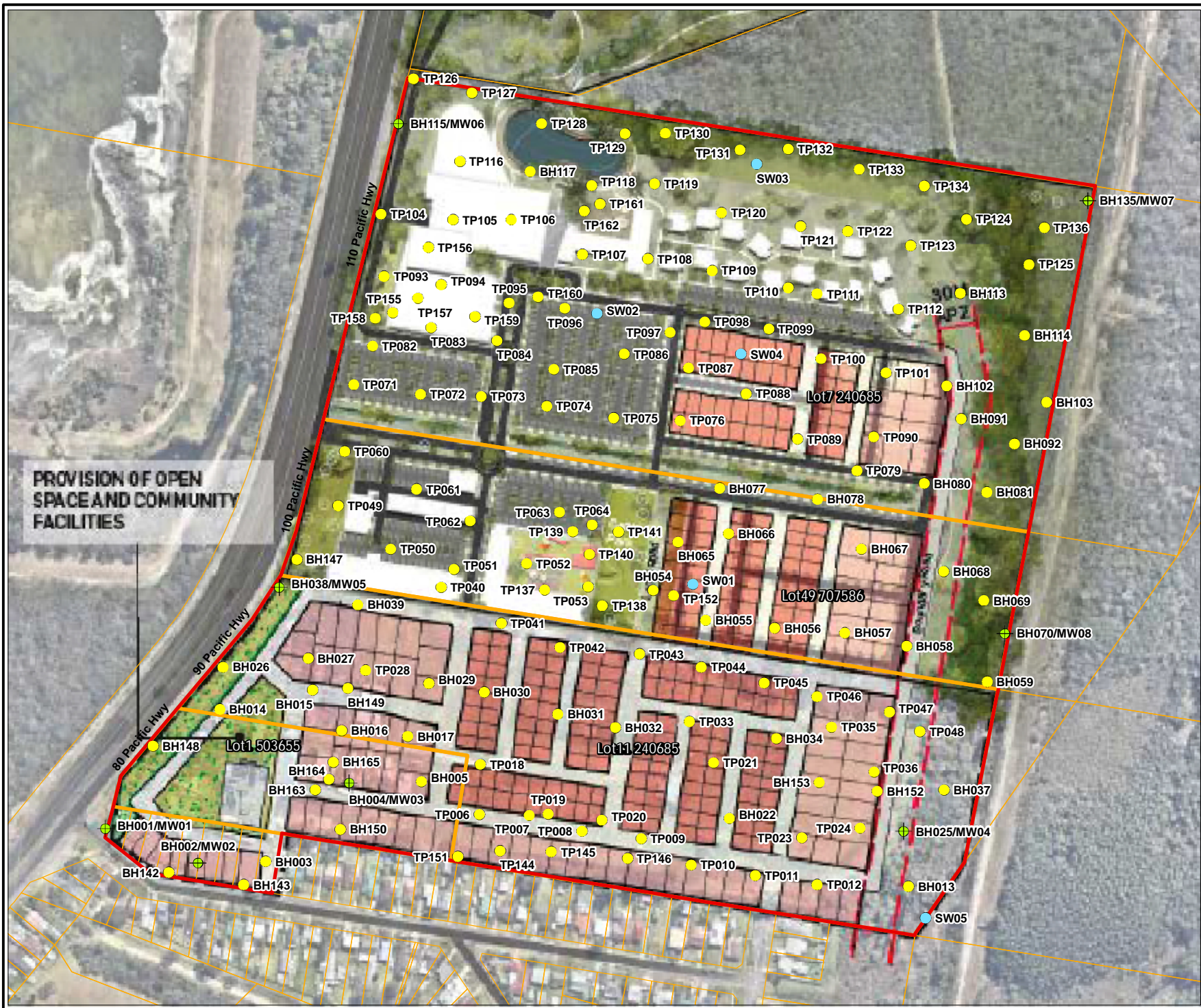


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**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

**SAMPLE LOCATIONS
(CURRENT LAYOUT)**

FIGURE 5A




Legend

- Approximate Site Boundary
- Cadastre

Sample Locations

- Borehole
- ⊕ Borehole/Monitoring well
- Surface water




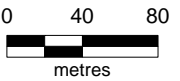
Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA	Date 3/09/2019
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Scale 1:4,000





metres

Coord. Sys. GDA 1994 MGA Zone 56

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

**SAMPLE LOCATIONS
(PROPOSED LAYOUT)**

FIGURE 5B



Legend

Sample Locations

- Borehole
- ⊕ Borehole/Monitoring well
- Surface water
- Aesthetic Impact
- ▨ PFAS Investigation Area (by others)

Areas of Environmental Concern

- 1. Filling
- 2. Stockpiling
- 3. Chemical Storage
- 4. Historic Buildings/Activities
- 5. Evaporation Trenches/Septic
- 6. Surface Water
- ▭ Approximate Site Boundary
- ▭ Cadastre



Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA Date 5/09/2019

Drawn By: AS/RF Checked By: RL

Scale 1:5,000

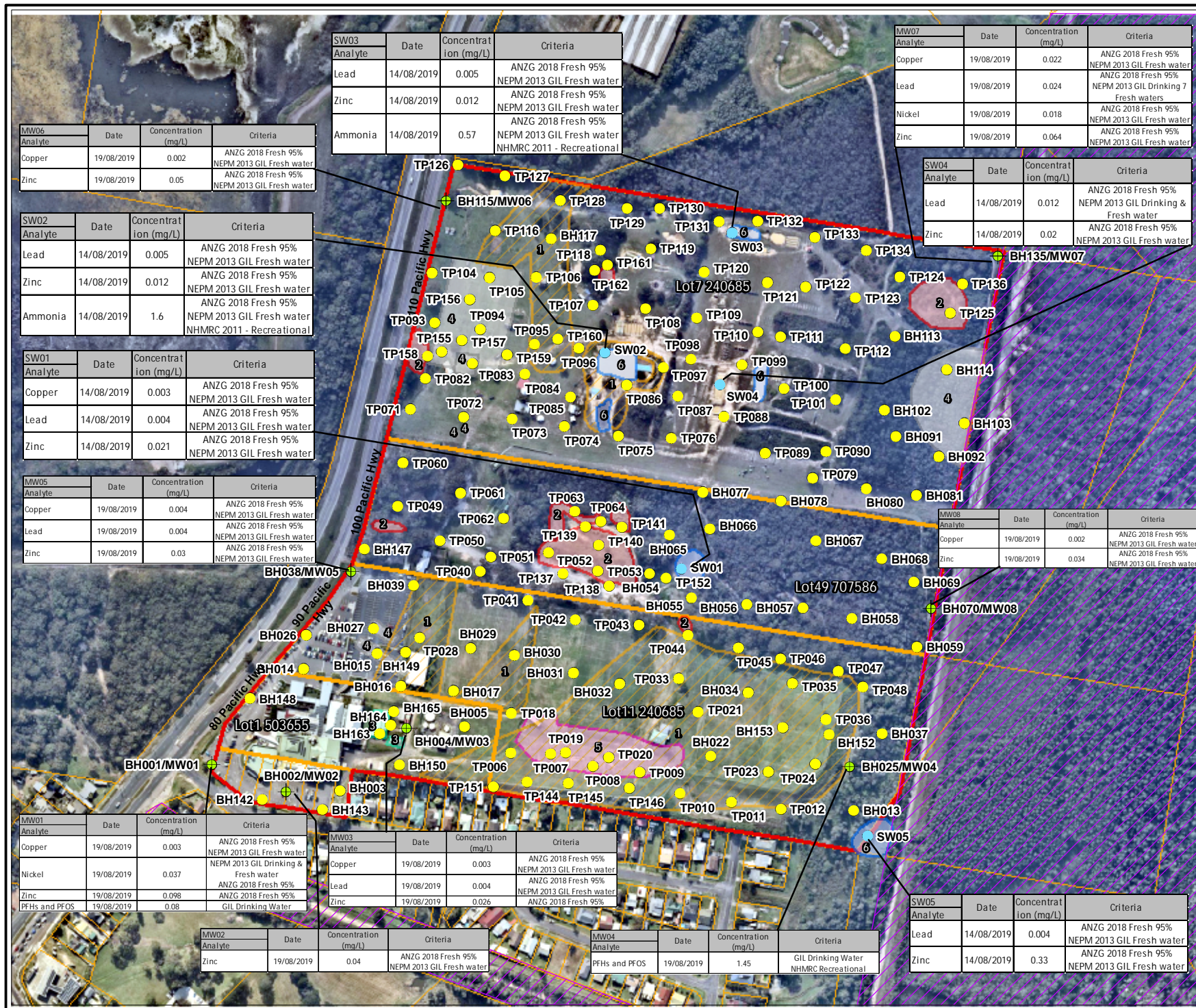
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TP035	Non friable Asbestos	14/08/2019	Presence	HSL
	Chrysotile Asbestos	14/08/2019	Presence	HSL
TP036	Non friable Asbestos	14/08/2019	Presence	HSL
	Chrysotile Asbestos	14/08/2019	Presence	HSL

Coord. Sys. GDA 1994 MGA Zone 56

Pacific Hwy and Wentworth Ave, Doyalson NSW

EXCEEDANCES - SOIL

FIGURE 6A



Legend

- Approximate Site Boundary
- Cadastre
- Sample Locations**
 - Borehole
 - Borehole/Monitoring well
 - Surface water
- PFAS Investigation Area (by others)
- Areas of Environmental Concern**
 - Filling
 - Stockpiling
 - Chemical Storage
 - Historic Buildings/Activities
 - Evaporation Trenches/Septic
 - Surface Water



Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA Date 5/09/2019

Drawn By: AS/RF Checked By: RL

Scale 1:5,000

0 50 100 metres

Coord. Sys. GDA 1994 MGA Zone 56

Pacific Hwy and Wentworth Ave, Doyalson NSW

EXCEEDANCES - GROUNDWATER AND SURFACE WATER

FIGURE 6B

File Name: N:\Projects\Urbis Pty Ltd\56387 DSI Doyalson\GIS\Maps\R01_RevA_DSI\56387_06b_Exceedances Groundwater and Surface Water.mxd
 Reference: www.nearmap.com - Imagery 20190520



- Legend**
- Approximate Site Boundary
 - Cadastre
 - Sample Locations**
 - + Borehole/Monitoring Well
 - Base - 2m Elevation Contours (NSW LPI, 2019)
 - Groundwater Elevation (mAHd) August 2 019
 - ▶ Inferred Groundwater Flow Direction



Job No: 56387	
Client: Urbis Pty Ltd	
Version: R01 RevA	Date 5/09/2019
Drawn By: AS/RF	Checked By: RL
Scale 1:5,000	

Coord. Sys. GDA 1994 MGA Zone 56

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

**GROUNDWATER
ELEVATION (mAHd)**

FIGURE 7

File Name: N:\Projects\Urbis Pty Ltd\56387 DSI Doyalson\GIS\Maps\R01_RevA_DSI\56387_07_GroundwaterElevation.mxd
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Summary Tables

Table A(2) - Soil Analytical Data (Asbestos)

Project Number: 56387

Project Name: Doyalson DSI



Sample ID	Matrix Description	Sample Date	Lab Report	Sample Code	Asbestos										Asbestos	
					Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Asbestos ID in Soil	
EQL					g	%w/w	%w/w	g	g	g	g	g	g	g	g	Comment
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL A						0.01 ^{#1}										Presence/ Absence
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL							0.001 ^{#2}									
Sample ID	Matrix Description	Sample Date	Lab Report	Sample Code	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Mass ACM	Mass Asbestos in ACM	Mass FA	Mass Asbestos in FA	Mass AF	Mass Asbestos in AF	Mass Asbestos in FA & AF	Asbestos ID in Soil	Comment
BH001/MW01 0.0-0.1	Fill	12/08/2019	671221	S19-Au20121	537	0	0	0	0	0	0	0	0	0	0	Absence
BH002/MW02 0.0-0.1	Fill	12/08/2019	671221	S19-Au20123	550	0	0	0	0	0	0	0	0	0	0	Absence
BH003 0.0-0.1	Fill	12/08/2019	671221	S19-Au20126	283	0	0	0	0	0	0	0	0	0	0	Absence
BH004/MW03 0.2-0.3	Fill	14/08/2019	671628	S19-Au23500	504	0	0	0	0	0	0	0	0	0	0	Absence
QC05	BH004/MW03 0.2-0.3	14/08/2019	671628	S19-Au23555	407	0	0	0	0	0	0	0	0	0	0	Absence
BH005 0.0-0.1	Fill	14/08/2019	671628	S19-Au23502	212	0	0	0	0	0	0	0	0	0	0	Absence
TP06_0.0-0.1	Fill	13/08/2019	671221	S19-Au20150	601	0	0	0	0	0	0	0	0	0	0	Absence
TP07_0.0-0.1	Fill	13/08/2019	671221	S19-Au20147	561	0	0	0	0	0	0	0	0	0	0	Absence
TP08_0.0-0.1	Fill	13/08/2019	671221	S19-Au20141	625	0	0	0	0	0	0	0	0	0	0	Absence
TP09_0.0-0.1	Fill	13/08/2019	671628	S19-Au23515	609	0	0	0	0	0	0	0	0	0	0	Absence
TP10_0.0-0.1	Fill	13/08/2019	671628	S19-Au23519	592	0	0	0	0	0	0	0	0	0	0	Absence
TP11_0.0-0.1	Fill	13/08/2019	671628	S19-Au23511	634	0	0	0	0	0	0	0	0	0	0	Absence
BH15 0.0-0.1	Fill	14/08/2019	671628	S19-Au23505	386	0	0	0	0	0	0	0	0	0	0	Absence
BH17 0.0-0.1	Fill	14/08/2019	671628	S19-Au23508	458	0	0	0	0	0	0	0	0	0	0	Absence
TP18 0.0-0.1	Fill	14/08/2019	671628	S19-Au23568	795	0	0	0	0	0	0	0	0	0	0	Absence
TP19 0.0-0.1	Fill	13/08/2019	671628	S19-Au23535	531	0	0	0	0	0	0	0	0	0	0	Absence
TP20_0.0-0.1	Fill	13/08/2019	671221	S19-Au20144	625	0	0	0	0	0	0	0	0	0	0	Absence
TP21 0.0-0.1	Fill	14/08/2019	671628	S19-Au23570	790	0	0	0	0	0	0	0	0	0	0	Absence
BH22 0.0-0.1	Fill	14/08/2019	671628	S19-Au23479	308	0	0	0	0	0	0	0	0	0	0	Absence
TP23 0.0-0.1	Fill	14/08/2019	671628	S19-Au23572	685	0	0	0	0	0	0	0	0	0	0	Absence
TP23 2.9-3.0	Fill	14/08/2019	671628	S19-Au23574	731	0	0	0	0	0	0	0	0	0	0	Absence
TP24 0.0-0.05	Fill	14/08/2019	671628	S19-Au23575	519	0	0	0	0	0	0	0	0	0	0	Absence
TP24 1.4-1.5	Fill	14/08/2019	671628	S19-Au23576	798	0	0	0	0	0	0	0	0	0	0	Absence
BH25/MW04 0.0-0.1	Natural	14/08/2019	671628	S19-Au23481	387	0	0	0	0	0	0	0	0	0	0	Absence
BH27 0.0-0.1	Fill	13/08/2019	671628	S19-Au23546	506	0	0	0	0	0	0	0	0	0	0	Absence
TP28 0.0-0.1	Fill	14/08/2019	671628	S19-Au23578	792	0	0	0	0	0	0	0	0	0	0	Absence
BH29 0.0-0.1	Fill	14/08/2019	671628	S19-Au23486	406	0	0	0	0	0	0	0	0	0	0	Absence
BH32 0.0-0.1	Fill	14/08/2019	671628	S19-Au23580	232	0	0	0	0	0	0	0	0	0	0	Absence
TP33_0.0-0.1	Fill	12/08/2019	671221	S19-Au20167	630	0	0	0	0	0	0	0	0	0	0	Absence
TP33_0.9-1.0	Fill	12/08/2019	671221	S19-Au20168	627	0	0	0	0	0	0	0	0	0	0	Absence
QC02	TP33_0.9-1.0	12/08/2019	671221	S19-Au20176	446	0	0	0	0	0	0	0	0	0	0	Absence
QA02	TP33_0.9-1.0	14/08/2019	224101	224101-2	511	0	0	0	0	0	0	0	0	0	0	Absence
TP35 0.0-0.1	Fill	14/08/2019	671628	S19-Au23583	690	0	0	0	0	0	0	0	0	0	0	Absence
TP36 0.0-0.15	Fill	14/08/2019	671628	S19-Au23588	734	0	0	0	0	0	0	0	0	0	0	Absence
BH38/MW05 0.0-0.1	Fill	13/08/2019	671628	S19-Au23542	474	0	0	0	0	0	0	0	0	0	0	Absence
BH39 0.0-0.1	Fill	13/08/2019	671628	S19-Au23544	439	0	0	0	0	0	0	0	0	0	0	Absence
TP40 0.0-0.1	Natural	14/08/2019	671628	S19-Au23591	790	0	0	0	0	0	0	0	0	0	0	Absence
TP41 0.0-0.1	Fill	14/08/2019	671628	S19-Au23593	625	0	0	0	0	0	0	0	0	0	0	Absence
TP42 0.0-0.1	Fill	14/08/2019	671628	S19-Au23595	713	0	0	0	0	0	0	0	0	0	0	Absence
QC06	TP42 0.0-0.1	14/08/2019	671628	S19-Au23596	689	0	0	0	0	0	0	0	0	0	0	Absence
QA06	TP42 0.0-0.1	14/08/2019	224101	224101-6	750	0	0	0	0	0	0	0	0	0	0	Absence
TP43_0.0-0.1	Natural	12/08/2019	671221	S19-Au20169	655	0	0	0	0	0	0	0	0	0	0	Absence
TP44_0.0-0.1	Fill	12/08/2019	671221	S19-Au20170	465	0	0	0	0	0	0	0	0	0	0	Absence
TP45_0.0-0.1	Natural	12/08/2019	671221	S19-Au20172	403	0	0	0	0	0	0	0	0	0	0	Absence
TP46_0.0-0.1	Natural	12/08/2019	671221	S19-Au20173	632	0	0	0	0	0	0	0	0	0	0	Absence
TP47_0.0-0.1	Natural	12/08/2019	671221	S19-Au20175	588	0	0	0	0	0	0	0	0	0	0	Absence
TP48_0.0-0.1	Natural	12/08/2019	671221	S19-Au20177	470	0	0	0	0	0	0	0	0	0	0	Absence
TP49_0.0-0.1	Fill	12/08/2019	671221	S19-Au20178	529	0	0	0	0	0	0	0	0	0	0	Absence
TP50_0.0-0.1	Fill	12/08/2019	671221	S19-Au20180	590	0	0	0	0	0	0	0	0	0	0	Absence
TP51_0.0-0.1	Fill	12/08/2019	671221	S19-Au20154	1037	0	0	0	0	0	0	0	0	0	0	Absence
TP52_0.0-0.5	Fill	12/08/2019	671221	S19-Au20166	762	0	0	0	0	0	0	0	0	0	0	Absence
TP53_0.0-0.1	Fill	12/08/2019	671221	S19-Au20164	842	0	0	0	0	0	0	0	0	0	0	Absence
TP54_0.0-0.1	Fill	14/08/2019	671628	S19-Au23558	745	0	0	0	0	0	0	0	0	0	0	Absence
BH59_0.0-0.1	Natural	15/08/2019	671915	S19-Au25381	264	0	0	0	0	0	0	0	0	0	0	Absence
TP60_0.0-0.1	Natural	12/08/2019	671221	S19-Au20181	710	0	0	0	0	0	0	0	0	0	0	Absence
TP61_0.0-0.1	Natural	12/08/2019	671221	S19-Au20182	700	0	0	0	0	0	0	0	0	0	0	Absence
TP62_0.0-0.1	Natural	12/08/2019	671221	S19-Au20184	636	0	0	0	0	0	0	0	0	0	0	Absence
TP63_0.4-0.5	Fill	12/08/2019	671221	S19-Au20157	682	0	0	0	0	0	0	0	0	0	0	Absence
TP64_0.0-0.1	Fill	12/08/2019	671221	S19-Au20159	554	0	0	0	0	0	0	0	0	0	0	Absence
BH70/MW08 0.0-0.1	Fill	13/08/2019	671628	S19-Au23540	512	0	0	0	0	0	0	0	0	0	0	Absence
QC03	BH70/MW08 0.0-0.1	13/08/2019	671628	S19-Au23541	422	0	0	0	0	0	0	0	0	0	0	Absence
QA03	BH70/MW08 0.0-0.1	14/08/2019	224101	224101-3	409	0	0	0	0	0	0	0	0	0	0	Absence
BH77_0.0-0.1	Fill	15/08/2019	671915	S19-Au25385	529	0	0	0	0	0	0	0	0	0	0	Absence

Table A(4) - Soil Analytical Data

Project Number: 56387

Project Name: Doyalson DSI



	Microbiological			Acid Sulfate Soils				Ionic Balance		
	Thermotolerant Coliforms	E.coli	Salmonella	Acid trail - Titratable Sulfidic Acidity	pH-KCL	pH-OX	Sulfur - Peroxide Oxidisable Sulfur	Cation Exchange Capacity	EC 1:5 soil:water	pH 1:5 soil:water
	MPN/g	MPN/g	T	MOL H+/T	ph Units	ph Units	% S	meq/100g	µS/cm	ph Units
EQL	1	1		2	0.1	0.1	0.02	0.05	10	0.1
Grade A Microbiological Standards from NSW EPA Use and Disposal of Biosolid Products, 1997	1000	100	Detected							
ASSMAC, 1998				18			0.03			
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL A										
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL										
PFAS NEPM 2018 - Residential with Garden/Accessible Soil (Table 2)										
PFAS NEPM 2018 - Ecological Guideline Values (Table 3)										

Sample ID	Matrix Description	Sample Date	Lab Report	Sample Code	Thermotolerant Coliforms	E.coli	Salmonella	Acid trail - Titratable Sulfidic Acidity	pH-KCL	pH-OX	Sulfur - Peroxide Oxidisable Sulfur	Cation Exchange Capacity	EC 1:5 soil:water	pH 1:5 soil:water
TP07_1.4-1.5	Fill	13/08/2019	671221	S19-Au20148	<10	<10	Non Detect	-	-	-	-	-	-	-
TP09 3.9-4.0	Fill	13/08/2019	671628	S19-Au23517	<10	<10	Non Detect	-	-	-	-	-	-	-
BH22 0.0-0.1	Fill	14/08/2019	671628	S19-Au23479	-	-	-	-	-	-	-	3.6	20	5.8
BH25/MW04 5.5-5.6	Natural	14/08/2019	671628	S19-Au23484	-	-	-	6	5	5.4	<0.2	2.6	36	5.3
BH069_0.0-0.1	Natural	15/08/2019	671915	S19-Au25520	-	-	-	-	-	-	-	0.84	<10	5.1
BH078_0.3-0.4	Natural	15/08/2019	671915	S19-Au25525	-	-	-	-	-	-	-	1.6	<10	5.1
BH135/MW01 1.7-1.8	Natural	13/08/2019	671221	S19-Au20135	-	-	-	10	4.6	4.5	<0.02	-	-	-
BH135/MW07 0.0-0.1	Natural	13/08/2019	671221	S19-Au20133	-	-	-	4	5	3.7	<0.02	-	-	-
TP151 0.0-0.1	Fill	14/08/2019	671628	S19-Au23563	<10	<10	Non Detect	-	-	-	-	-	-	-
BH152 2.9-3.0	Fill	14/08/2019	671628	S19-Au23549	-	-	-	-	-	-	-	13	160	6.9

Statistical Summary

Number of Results	3	3	0	3	3	3	3	5	5	5
Number of Detects	0	0	0	3	3	3	0	5	3	5
Minimum Concentration	<10	<10	ND	4	4.6	3.7	<0.02	0.84	<10	5.1
Minimum Detect	ND	ND	ND	4	4.6	3.7	ND	0.84	20	5.1
Maximum Concentration	<10	<10	0	10	5	5.4	<0.2	13	160	6.9
Maximum Detect	ND	ND	ND	10	5	5.4	ND	13	160	6.9
Average Concentration	5	5		6.7	4.9	4.5	0.04	4.3	45	5.6
Median Concentration	5	5		6	5	4.5	0.01	2.6	20	5.3
Standard Deviation	0	0		3.1	0.23	0.85	0.052	5	65	0.76
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0



	Microbiological			Asbestos			Other	
	Thermotolerant Coliforms MPN/g	E.coli MPN/g	Salmonella MPN/g	Approx. Sample Mass g	Asbestos from ACM in Soil %w/w	Asbestos from FA & AF in Soil %w/w	Asbestos ID in Soil Comment	% Moisture 105oC
EQL	1	1					Presence/ Absence	1
ANZECC/AEMCANZ Sediment Quality Guideline (2013) - Guideline Value								
ANZECC/AEMCANZ Sediment Quality Guideline (2013) - SQG High								
NEPM 2013 Soil HIL A								
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Clay 0 to <1m								
NEPM 2013 Soil HSL A & HSL B for Vapour Intrusion - Sand 0 to <1m								
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Residential - HSL A					0.01 ^{#1}			
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL						0.001 ^{#2}		
PFAS NEPM 2018 - Residential with Garden/Accessible Soil (Table 2)								
PFAS NEPM 2018 - Ecological Guideline Values (Table 3)								

Sample ID	Soil Description	Sample Date	Lab Report	Sample Code	Thermotolerant Coliforms	E.coli	Salmonella	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Asbestos ID in Soil	% Moisture 105oC
BH13_0.0-0.1	Sediment	15/08/2019	671915	S19-Au25383	-	-	-	-	-	-	-	12
TP086_0.0-0.1	Sediment	15/08/2019	671915	S19-Au25530	-	-	-	-	-	-	-	15
TP151_0.0-0.1	Sediment	14/08/2019	671628	S19-Au23563	<10 ^{#2}	<10	Non Detect	-	-	-	-	15
BH152_0.0-0.1	Sediment	14/08/2019	671628	S19-Au23548	-	-	-	373	0	0	Absence	20

Statistical Summary	Thermotolerant Coliforms	E.coli	Salmonella	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil	Asbestos ID in Soil	% Moisture 105oC
Number of Results	1	1	0	1	1	1	0	4
Number of Detects	0	0	0	1	1	1	0	4
Minimum Concentration	<10	<10	ND	373	0	0	Absence	12
Minimum Detect	ND	ND	ND	373	ND	ND	ND	12
Maximum Concentration	<10	<10	0	373	0	0	0	20
Maximum Detect	ND	ND	ND	373	ND	ND	ND	20
Average Concentration								16
Median Concentration	5	5		373	0	0		15
Standard Deviation								3.3
Number of Guideline Exceedances	0	0	0	0	0	0	0	0
Number of Guideline Exceedances (Detects Only)	0	0	0	0	0	0	0	0

Table B - Groundwater Analytical Data
 Project Number: 56387
 Project Name: Doyalson DSI



	Chlorinated Alkanes															Chlorinated Alkenes										Chlorinated Benzenes													
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,1,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene			
EQL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
ANZG 2018 Water Quality Guidelines (Fresh Water) 95% level of Protection				6.5																																			
ADWG 2011 (as amended Aug 2018) - Drinking Water																																							
ADWG 2011 (as amended Aug 2018) (factor 10) - Recreational																																							
ADWG 2011 (as amended Aug 2018) - Aesthetics																																							
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																							
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Clay 4 to <8m																																							
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Sand 2 to <4m																																							
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Sand 4 to <8m																																							

Sample ID	Sample Date	Lab Report Number	Sample Code	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,1,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene		
MW01	19/08/2019	672129	S19-Au27277	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001
MW02	19/08/2019	672129	S19-Au27273	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001
QA01_GME	19/08/2019	224219	224219-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
QC01_GME	19/08/2019	672129	S19-Au27274	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW03	19/08/2019	672129	S19-Au27275	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW04	19/08/2019	672129	S19-Au27278	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW05	19/08/2019	672129	S19-Au27276	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW06	19/08/2019	672129	S19-Au27279	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW07	19/08/2019	672129	S19-Au27280	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW08	19/08/2019	672129	S19-Au27281	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

Statistical Summary	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,1,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene		
Number of Results	10	10	10	10	10	10	1	10	10	10	10	1	10	10	10	10	10	10	9	10	10	1	1	9	10	10	10	10	10	10	10	1	1	10	10	10	10	10
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Median Concentration	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Data Comments
 #1 Quantification of linear and branched isomers



	Polycyclic Aromatic Hydrocarbons																Solvents		Trihalomethanes				Nutrients			Major Anions				Ionic Balance		VIC - IWRG			
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (WHO)	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	PAHs (Total)	Phenanthrene	Pyrene	2-Propanone (Acetone)	Bromochloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	Carbonate Alkalinity (as CO3)	Bicarbonate Alkalinity (as CaCO3)	Carbonate Alkalinity (as CaCO3)	Hydroxide Alkalinity (as CaCO3)	EC_Lab	pH_Unit	Total Alkalinity (as CaCO3)	Chlorinated Hydrocarbons EPA/C	Other Chlorinated Hydrocarbons EPA/C		
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	pH Unit	mg/L	µg/L	µg/L		
EQL	0.00001	0.00001	0.00001	0.00001	0.00001	0.00005	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	1	0.001	0.001	0.001	0.001	0.01	0.005	0.005	5	5	10	5	1	0.1	5	5	5		
ANZG 2018 Water Quality Guidelines (Fresh Water) 95% level of Protection																																			
ADWG 2011 (as amended Aug 2018) - Drinking Water					0.00001													0.25	0.25	0.25	0.25														
ADWG 2011 (as amended Aug 2018) (factor 10) - Recreational					0.0001												140000	2.5	2.5	2.5	2.5		112.9	92											
ADWG 2011 (as amended Aug 2018) - Aesthetics																						0.5													
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																			
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Clay 4 to <8m																																			
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Sand 2 to <4m																																			
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Sand 4 to <8m																																			

Sample ID	Sample Date	Lab Report Number	Sample Code	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (WHO)	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	PAHs (Total)	Phenanthrene	Pyrene	2-Propanone (Acetone)	Bromochloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	Carbonate Alkalinity (as CO3)	Bicarbonate Alkalinity (as CaCO3)	Carbonate Alkalinity (as CaCO3)	Hydroxide Alkalinity (as CaCO3)	EC_Lab	pH_Unit	Total Alkalinity (as CaCO3)	Chlorinated Hydrocarbons EPA/C	Other Chlorinated Hydrocarbons EPA/C
MW01	19/08/2019	672129	S19-Au27277	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	0.08	<0.02	<0.02	-	100	<10	<20	5100	6.8	100	<5	<5
MW02	19/08/2019	672129	S19-Au27273	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	0.09	<0.02	<0.02	-	250	<10	<20	5700	7.7	250	<5	<5
QA01_GME	19/08/2019	224219	224219-1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.001	<0.001	<0.001	<0.001	0.09	<0.05	<0.05	<5	230	-	<5	5000	7.3	230	-	-
QC01_GME	19/08/2019	672129	S19-Au27274	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	0.11	<0.02	0.02	-	240	<10	<20	5600	7.3	240	<5	<5
MW03	19/08/2019	672129	S19-Au27275	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.01	4.5	0.02	-	<20	<10	<20	350	5.7	<20	<5	<5
MW04	19/08/2019	672129	S19-Au27278	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.01	0.13	0.02	-	23	<10	<20	480	5.6	23	<5	<5
MW05	19/08/2019	672129	S19-Au27276	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.01	0.5	0.04	-	<20	<10	<20	110	5.3	<20	<5	<5
MW06	19/08/2019	672129	S19-Au27279	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.03	0.03	0.02	-	200	<10	<20	1500	7.2	200	<5	<5
MW07	19/08/2019	672129	S19-Au27280	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.01	0.18	0.03	-	24	<10	<20	710	6.3	24	<5	<5
MW08	19/08/2019	672129	S19-Au27281	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.01	0.54	<0.02	-	<20	<10	<20	950	5.5	<20	<5	<5

Statistical Summary	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (WHO)	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	PAHs (Total)	Phenanthrene	Pyrene	2-Propanone (Acetone)	Bromochloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Ammonia (as N)	Nitrate (as N)	Nitrite (as N)	Carbonate Alkalinity (as CO3)	Bicarbonate Alkalinity (as CaCO3)	Carbonate Alkalinity (as CaCO3)	Hydroxide Alkalinity (as CaCO3)	EC_Lab	pH_Unit	Total Alkalinity (as CaCO3)	Chlorinated Hydrocarbons EPA/C	Other Chlorinated Hydrocarbons EPA/C		
Number of Results	10	10	10	10	10	1	9	10	9	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	6	4	0	7	0	0	10	10	7	0	0
Minimum Concentration	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.02	<0.02	<5	<20	<10	<5	110	5.3	<20	<5	<5	
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	0.03	0.02	ND	23	ND	ND	110	5.3	23	ND	ND	
Maximum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.005	<0.001	<0.001	<0.001	0.11	4.5	<0.05	<5	250	<10	<20	5700	7.7	250	<5	<5	
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	4.5	0.04	ND	250	ND	ND	5700	7.7	250	ND	ND	
Average Concentration	0.00046	0.00046	0.00046	0.00046	0.00046	0.0005	0.00046	0.0005	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.5	0.0005	0.0023	0.0005	0.0005	0.0005	0.043	0.59	0.019	110	5	9.3	2550	6.5	110	2.5	2.5		
Median Concentration	0.0005	0.0005	0.0005	0.0005	0.0005	0.00025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.5	0.0005	0.0025	0.0005	0.0005	0.0005	0.0175	0.08	0.015	2.5	62	5	10	1225	6.55	62	2.5	2.5	
Standard Deviation	0.00014	0.00014	0.00014	0.00014	0.00014	0	0.00014	0	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00016	0.00014	0	0	0.00063	0	0	0.044	1.4	0.011	108	0	2.4	2446	0.9	108	0	0	0		
Number of Guideline Exceedances	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Data Comments
 #1 Quantification of linear and branched isomers

Table C - Surface Water Analytical Data
 Project Number: 56387
 Project Name: Doyalson DSI



	Chlorinated Alkanes																	Chlorinated Alkenes										Solvents									
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromo-chloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene		trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)					
EQL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1					
ANZG 2018 Water Quality Guidelines (Fresh Water) 95% level of Protection				6.5																																	
ADWG 2011 (as amended Aug 2018) - Drinking Water									0.003								0.004		0.03							0.05					0.0003						
ADWG 2011 (as amended Aug 2018) (factor 10) - Recreational									0.03								0.04		0.3							0.5				0.2	0.003	140000					
ADWG 2011 (as amended Aug 2018) - Aesthetics																																					
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Clay 2 to <4m																																					
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Clay 4 to <8m																																					
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Sand 2 to <4m																																					
NEPM 2013 Groundwater HSL A & HSL B for Vapour Intrusion - Sand 4 to <8m																																					
Field_ID	Sampled_Date-Time	Lab_Report_Number	SampleCode	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
SW01	14/08/2019	671628	S19-Au23597	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
QA01-SW	14/08/2019	224101	224101-12	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
QC01_SW	14/08/2019	671628	S19-Au23601	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
SW02	14/08/2019	671628	S19-Au23598	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
SW03	14/08/2019	671628	S19-Au23599	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
SW04	14/08/2019	671628	S19-Au23600	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
SW05	16/08/2019	671915	S19-Au25922	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
Statistical Summary																																					
Number of Results	7	7	7	7	7	7	1	7	7	7	1	7	7	7	7	6	7	7	1	1	6	7	7	7	7	7	7	7	7	7	7	6					
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Minimum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Maximum Concentration	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1					
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Average Concentration	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0011	0.5					
Median Concentration	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.5					
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0017	0				
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0					
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

Appendix A Photographic Log

PHOTO 1: 80 PACIFIC HWY - VIEW OF THE CARPARK WEST OF THE R.S.L, FACING NORTH, PHOTO TAKEN 08/08/2019



PHOTO 3: 80 PACIFIC HWY - SHOWS THE GROUNDSKEEPERS MAINTENANCE SHED, FACING NORTH, PHOTO TAKEN 08/08/2019



PHOTO 2: 80 PACIFIC HWY - SHOWING MAINTENANCE STRUCTURES (WHITE BUILDINGS FOREGROUND) AND R.S.L CLUB (LARGE STRUCTURE BACKGROUND), FACING SOUTH-WEST, PHOTO TAKEN 08/08/2019



PHOTO 4: 80 PACIFIC HWY - SHOWING A MAINTENANCE STRUCTURE IN FAIR CONDITION, FACING EAST, PHOTO TAKEN 08/08/2019



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev A

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 5: 90 PACIFIC HWY – SHOWS SOUTHERN-MOST SPORTING FIELD, FACING SOUTH, PHOTO TAKEN 08/08/2019



PHOTO 6: 90 PACIFIC HWY – SHOWING THE NORTHERN BOUNDARY OF THE EASTERN-MOST SPORTING FIELD, FACING EAST, PHOTO TAKEN 08/08/2019



PHOTO 7: 90 PACIFIC HWY - SHOWING THE SEDIMENT SETTLING IRRIGATION TANKS AND TERRACED FIELDS, PHOTO TAKEN 08/08/2019



PHOTO 8: 90 PACIFIC HWY – SHOWING THE EASTERN-MOST FIELD, FACING WEST, NOTE THE TERRACING BETWEEN FIELDS, PHOTO TAKEN 08/08/2019



Job No: 56377

Client: Doyalson Wyee R.S.L Limited

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 9: 100 PACIFIC HWY - SHOWING THE DAM, FACING EAST, PHOTO TAKEN 08/08/2019



PHOTO 10: 100 PACIFIC HWY – SHOWING SMALL STOCKPILE AND STORAGE CONTAINERS, FACING NORTH-WEST, PHOTO TAKEN 08/08/2019



PHOTO 11: 100 PACIFIC HWY – SHOWING GRASSED AREA AND VEGETATION, FACING SOUTH-WEST, PHOTO TAKEN 08/08/2019



PHOTO 12: 110 PACIFIC HWY – SHOWING THE ENDURANCE COURSE, FACING NORTH, PHOTO TAKEN 08/08/2019



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 13: 110 PACIFIC HWY – SHOWING MAINTENANCE SHEDS/CONTAINERS FOR THE ENDURANCE COURSE, FACING NORTH, PHOTO TAKEN 08/08/2019



PHOTO 15: 110 PACIFIC HWY – SHOWING A TRAIL THROUGH THE VEGETATED AREA TO THE EAST OF LOT 110, FACING SOUTH, PHOTO TAKEN 08/08/2019



PHOTO 14: 110 PACIFIC HWY – SHOWING DAMS AND WATER-FILLED TRENCHES ASSOCIATED WITH THE ENDURANCE COURSE, FACING EAST, PHOTO TAKEN 08/08/2019



PHOTO 16: 110 PACIFIC HWY – SHOWS EARTHWORKS ASSOCIATED WITH THE CONSTRUCTION OF OBSTACLES WITHIN THE ENDURANCE COURSE, FACING NORTH, PHOTO TAKEN 08/08/2019



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

**PHOTO 17: 49-65 WENTWORTH AVE – SHOWING
INSTALLATION OF MW01 AT BH001, FACING NORTH, PHOTO
TAKEN 12/08/2019**



**PHOTO 18: 49-65 WENTWORTH AVE – SHOWING MATERIAL
RECOVERED FROM BH001/MW01 FROM 0.5M-1.0M DEPTHS,
PHOTO TAKEN 12/08/2019**



**PHOTO 19: 49-65 WENTWORTH AVE – SHOWING
INSTALLATION OF MW02 AT BH002, FACING NORTH, PHOTO
TAKEN 12/08/2019**



**PHOTO 20: 49-65 WENTWORTH AVE – SHOWING MATERIAL
RECOVERED FROM BH002/MW02 FROM 2.0M-2.5M DEPTHS,
PHOTO TAKEN 12/08/2019**



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 21: 80 PACIFIC HWY - SHOWING MATERIAL AT DEPTH DURING INSTALLATION OF MW03 AT BH004, FACING NORTH, PHOTO TAKEN 13/08/2019



PHOTO 22: 80 PACIFIC HWY – SHOWING MATERIAL RECOVERED FROM BH004/MW03 FROM 1.5M-2.0M DEPTHS PHOTO TAKEN 13/08/2019



PHOTO 23: 90 PACIFIC HWY – SHOWING INSTALLATION OF MW04 AT BH025, FACING NORTH-EAST, PHOTO TAKEN 14/08/2019



PHOTO 24: 90 PACIFIC HWY – SHOWING MATERIAL RECOVERED FROM BH025/MW04 FROM 3.0M-3.5M DEPTHS, PHOTO TAKEN 14/08/2019



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 25: 90 PACIFIC HWY – SHOWING INSTALLATION OF MW05 AT BH038, FACING NORTH-WEST, PHOTO TAKEN 13/08/2019



PHOTO 26: 90 PACIFIC HWY – SHOWING MATERIAL RECOVERED FROM BH038/MW05 FROM 2.5M-3.0M DEPTHS, PHOTO TAKEN 13/08/2019



PHOTO 27: 110 PACIFIC HWY – SHOWING THE INSTALLED MONITORING WELL MONUMENT MW06 AT BH115, FACING



PHOTO 28: 110 PACIFIC HWY – SHOWING MATERIAL RECOVERED FROM BH115/MW06 FROM 0.0M-0.5M DEPTHS, PHOTO TAKEN 13/08/2019



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 29: 110 PACIFIC HWY – SHOWING SATURATED MATERIAL DURING INSTALLATION OF MW07 AT BH135, PHOTO TAKEN 13/08/2019



PHOTO 30: 110 PACIFIC HWY – SHOWING MATERIAL RECOVERED FROM BH135/MW07 FROM 4.5M-5.0M DEPTHS, PHOTO TAKEN 13/08/2019



PHOTO 31: 100 PACIFIC HWY – SHOWING INSTALLATION OF MW08 AT BH070, FACING SOUTH, PHOTO TAKEN 13/08/2019



PHOTO 32: 100 PACIFIC HWY – SHOWING MATERIAL RECOVERED FROM BH070/MW08 FROM 0.5M-1.0M DEPTHS, PHOTO TAKEN 13/08/2019



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 33: 100 PACIFIC HWY – SHOWING A STOCKPILE OR MATERIAL SAID TO BE USED AT CRICKET PITCH BASE, FACING EAST, PHOTO TAKEN 08/08/19



PHOTO 34: 100 PACIFIC HWY – SHOWING A STOCKPILE OF TREE/ORGANIC WASTE TOWARD THE CENTRE OF THE LOT, FACING NORTH, PHOTO TAKEN 08/08/19



PHOTO 35: 100 PACIFIC HWY – SHOWING A STOCKPILE OF DEMO / ORGANIC WASTE TOWARD THE CENTRE OF THE LOT 08/08/19



PHOTO 36: 100 PACIFIC HWY – SHOWING THE LARGE STOCKPILE OF MATERIAL SAID TO BE EXCESS OF THE R.S.L'S PAST REDEVELOPMENT ACTIVITIES TOWARD THE CENTRE OF THE LOT, FACING NORTH, PHOTO TAKEN 12/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 37: 100 PACIFIC HWY – TP47 STOCKPILE OF SOIL / ORGANICS TO THE WEST OF THE LOT, FACING SOUTH, PHOTO TAKEN 12/08/19



PHOTO 39: 110 PACIFIC HIGHWAY – SHOWING A STOCKPILE OF ORGANICS / WOOD CHIPS TO THE WEST OF THE LOT, FACING NORTH WEST, PHOTO TAKEN 08/08/2019



PHOTO 38: 110 PACIFIC HWY – SHOWING EARTHWORKS ASSOCIATED WITH THE ENDURANCE COURSE IN THE NORTH OF THE LOT, FACING NORTH, PHOTO TAKEN 08/08/19



40: 110 PACIFIC HWY – TP97 INTO AN EARTHWORKS ASSOCIATED WITH THE ENDURANCE COURSE, CENTRE OF THE LOT, FACING SOUTH, PHOTO TAKEN 15/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 41: 80 PACIFIC HWY - AN UNDERGROUND STORAGE TANK ATTACHED TO AN OIL SEPARATOR OUTSIDE THE GREENKEEPERS SHEDS, FACING EAST, PHOTO TAKEN 08/08/19



PHOTO 42: 80 PACIFIC HWY – PAINT STORED WITHIN THE MAINTENANCE SHEDS, PHOTO TAKEN 08/08/19



PHOTO 43: 80 PACIFIC HWY – STORAGE OF FERTILISERS AND HERBICIDES WITHIN THE MAINTENANCE SHEDS, PHOTO TAKEN 08/08/19



PHOTO 44: 80 PACIFIC HWY – STORAGE OF OILS / FUELS WITHIN THE MAINTENANCE SHED, PHOTO TAKEN 08/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 45: 110 PACIFIC HWY – SHOWING A STORAGE AREA FOR THE ENDURANCE COURSE, TOWARD THE CENTRE OF THE LOT, FACING, NORTH, PHOTO TAKEN 08/08/19



PHOTO 46: 110 PACIFIC HWY – SHOWING A FIRE PIT CONTAINING GREEN WASTE AND SOME TIMBERS WITHIN THE CENTRE OF THE LOT, FACING WEST, PHOTO TAKEN 08/08/19



PHOTO 47: 110 PACIFIC HWY – SHOWING A STOCKPILE OF TYRES USED FOR THE ENDURANCE COURSE TOWARD THE EAST OF THE LOT, FACING EAST, PHOTO TAKEN 08/08/19



PHOTO 48: 110 PACIFIC HWY – SHOWING THE LOCATION OF THE JEMENA GAS EASEMENT IN THE SOUTH OF THE LOT, FACING EAST, PHOTO TAKEN 08/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 49: 90 PACIFIC HWY – EXCAVATING A TEST PIT (TP023) IN AN AREA OF DEEP FILL TO THE EAST OF THE LOT, FACING NORTH-EAST, PHOTO TAKEN 14/08/19



PHOTO 51: 90 PACIFIC HWY- SHOWING CONTENTS OF TP008 IN THE CENTRAL SOUTH OF THE LOT, WHICH INCLUDED A LARGE VOLUME OF DEMO WASTE AND ENGINE PARTS, PHOTO TAKEN 13/08/19



PHOTO 50: 90 PACIFIC HWY – SHOWING CONTENTS OF TP035 IN THE EAST OF THE LOT, WHICH INCLUDED POTENTIAL ACM, PLASTICS, SAW BLADES, ORGANICS AND BUILDING DEMO, PHOTO TAKEN 14/08/19



PHOTO 52: 90 PACIFIC HWY – SHOWING TP007 WHICH EXCAVATED AN AREA OF THICK FILL FOUND TO BE TYPICAL OF THE EAST / SOUTH OF THE LOT, PHOTO TAKEN 13/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 53: 90 PACIFIC HWY – SETTING UP TO RECOVER PUSH TUBE SAMPLES FROM BH153 WITHIN THE SPORTING FIELDS IN THE EAST OF THE LOT, FACING SOUTH, PHOTO TAKEN 14/08/19



PHOTO 54: 90 PACIFIC HWY – PUSH TUBE SAMPLES RECOVERED FROM BH153 THROUGH AN AREA OF THICK FILL, PHOTO TAKEN 14/08/19



PHOTO 55: 100 PACIFIC HWY – SHOWING TERRAIN TOWARD THE EAST OF THE LOT WAS INACCESSIBLE FOR EXCAVATOR, FACING EAST, PHOTO TAKEN 15/08/19



PHOTO 56: 110 PACIFIC HWY – SHOWING NATURAL SOILS DURING THE EXCAVATION OF BH067, PHOTO TAKEN 15/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW

APPENDIX A

PHOTO 57: 110 PACIFIC HWY – SHOWING A HAND AUGURED BOREHOLE AT BH080 DIRECTLY INTO NATURAL MATERIAL, PHOTO TAKEN 15/08/19



PHOTO 58: 110 PACIFIC HWY – SHOWING TYPICAL DEPTH OF INVESTIGATION TO ENCOUNTER NATURAL MATERIAL WITHIN THE NORTHERN TWO LOTS AT TP075, FACING WEST, PHOTO TAKEN 15/08/19



PHOTO 59: 110 PACIFIC HWY – SHOWS A TEST PIT (TP071) WHICH GIVES A TYPICAL EXCAVATION PROFILE FROM SURFACE IN THE NORTHERN LOTS, PHOTO TAKEN 15/08/19



PHOTO 60: 110 PACIFIC HWY – SHOWING AN EXAMPLE OF THE DOMINANT NATURAL MATERIAL FROM TP116, THAT WAS FOUND UNDERLYING THE MAJORITY OF SITE, PHOTO TAKEN 15/08/19



Job No: 56387

Client: Doyalson Wyee R.S.L Ltd

Version: Rev 0

Date: 22/08/2019

Drawn By: MS

Checked By: RL

Not to Scale

Coord. Sys n/a

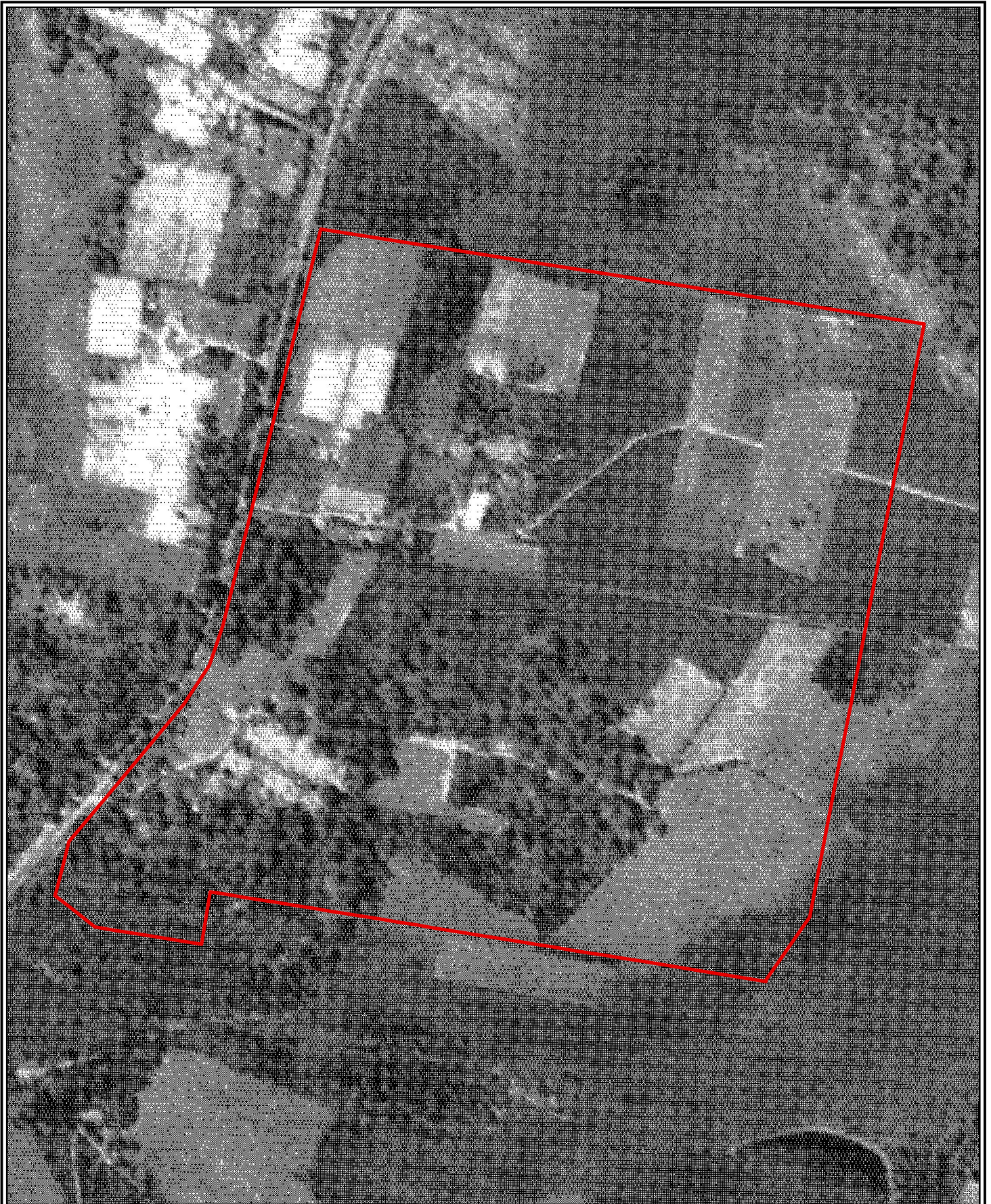
49-68 Wentworth Ave and 80, 90,
100 and 110 Pacific Highway
Doyalson, NSW


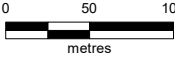


APPENDIX A

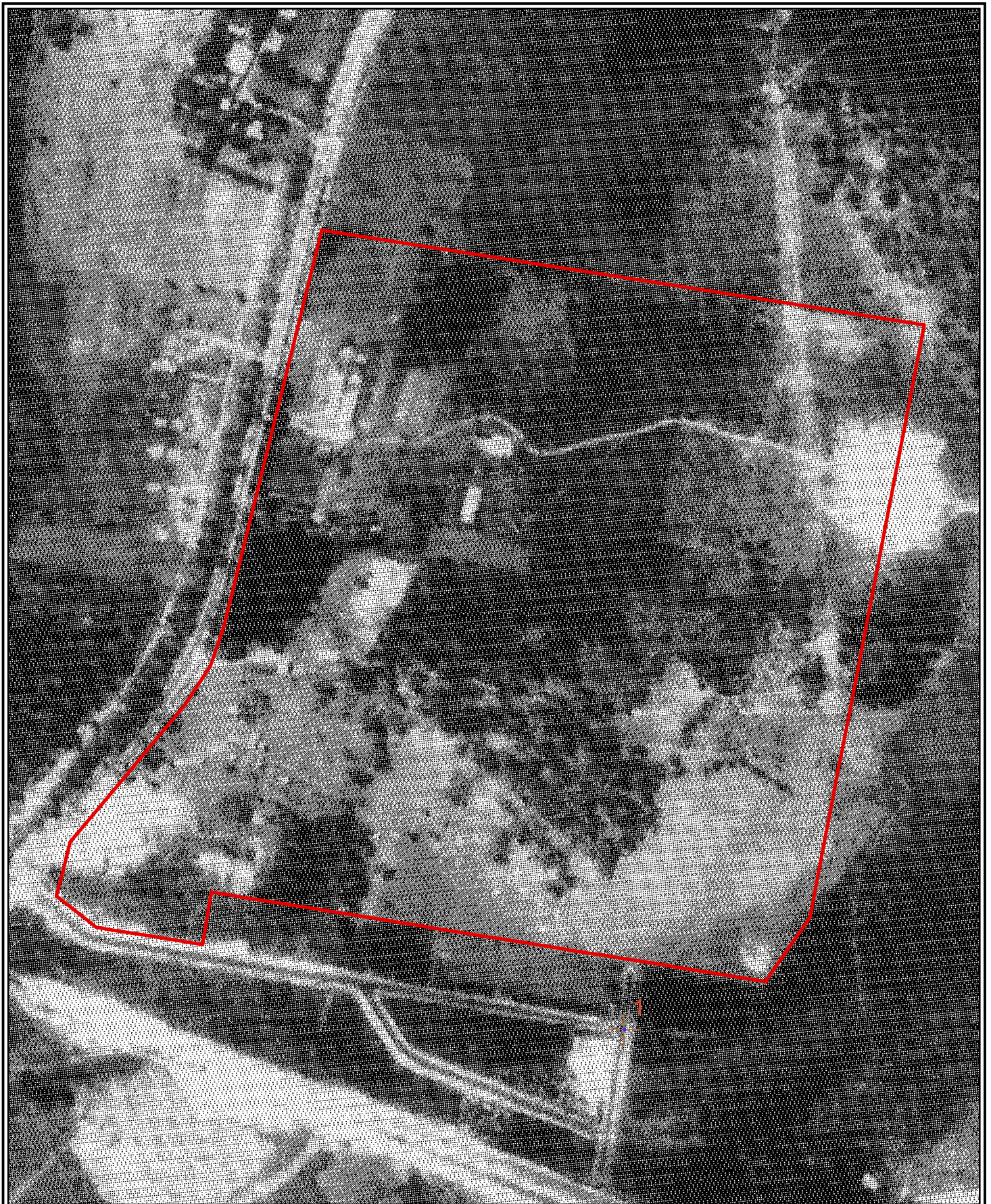
Appendix B Groundwater Bore Locations




Appendix C Historical Aerials



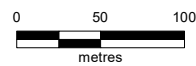
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	Coord. Sys. GDA 1994 MGA Zone 56			HISTORICAL AERIAL 1954
	Job No: 56387			
	Client: Urbis Pty Ltd			
	Version: R01 RevA		Date 30/08/2019	
	Drawn By: AS		Checked By: RL	
FIGURE 1954				



Legend:

 Approximate Site Boundary

Scale 1:4,500



Coord. Sys. GDA 1994 MGA Zone 56



Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA

Date 30/08/2019

Drawn By: AS

Checked By: RL

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**


HISTORICAL AERIAL 1966

FIGURE 1966

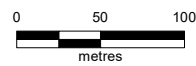




Legend:

 Approximate Site Boundary

Scale 1:4,500



Coord. Sys. GDA 1994 MGA Zone 56



Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA

Date 30/08/2019

Drawn By: AS

Checked By: RL


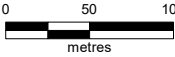


**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

HISTORICAL AERIAL 1976

FIGURE 1976






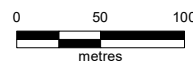
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	Coord. Sys. GDA 1994 MGA Zone 56				HISTORICAL AERIAL 1984
	Job No: 56387				
	Client: Urbis Pty Ltd				
	Version: R01 RevA		Date 30/08/2019		
	Drawn By: AS		Checked By: RL		
					



Legend:

 Approximate Site Boundary

Scale 1:4,500



**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

Coord. Sys. GDA 1994 MGA Zone 56



HISTORICAL AERIAL 1994

Job No: 56387

Client: Urbis Pty Ltd

FIGURE 1994

Version: R01 RevA

Date 30/08/2019


Drawn By: AS

Checked By: RL

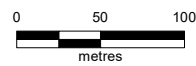




Legend:

 Approximate Site Boundary

Scale 1:4,500



Coord. Sys. GDA 1994 MGA Zone 56



Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA

Date 30/08/2019

Drawn By: AS

Checked By: RL

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**


HISTORICAL AERIAL 2006

FIGURE 2006

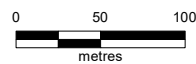




Legend:

 Approximate Site Boundary

Scale 1:4,480



**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

Coord. Sys. GDA 1994 MGA Zone 56



HISTORICAL AERIAL 2010

Job No: 56387

Client: Urbis Pty Ltd

FIGURE 2010

Version: R01 RevA

Date 30/08/2019


Drawn By: AS

Checked By: RL

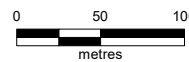




Legend:

 Approximate Site Boundary

Scale 1:4,500



Coord. Sys. GDA 1994 MGA Zone 56



Job No: 56387

Client: Urbis Pty Ltd

Version: R01 RevA

Date 30/08/2019

Drawn By: AS

Checked By: RL

**Pacific Hwy and Wentworth Ave,
Doyalson NSW**

HISTORICAL AERIAL 2016

FIGURE 2016



Appendix D EPA and Historical Places Searches

POEO Act Search

Your search for: **General Search** with the following criteria

Suburb - doyalson

returned 35 results

[Export to excel](#)

1 of 2 Pages

[Search Again](#)

Number	Name	Location	Type	Status	Issued date
2061	BORAL RESOURCES (COUNTRY) PTY. LIMITED	BUDGEWOI ROAD, DOYALSON, NSW 2262	POEO licence	No longer in force	03 Nov 1999
1024680	CENTENNIAL MANNERING PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	04 Feb 2003
1043601	CENTENNIAL MANNERING PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	14 Jan 2005
1055208	CENTENNIAL MANNERING PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	01 Mar 2006
1105215	CENTENNIAL MANNERING PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	22 Feb 2011
1502466	CENTENNIAL MANNERING PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	21 Dec 2011
1511832	CENTENNIAL MANNERING PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	Compliance Audit	Complete	07 Feb 2013
2316	CENTENNIAL MUNMORAH PTY LIMITED	SCENIC DRIVE, DOYALSON, NSW 2262	POEO licence	Surrendered	06 Apr 2000
1105297	CENTENNIAL MUNMORAH PTY LIMITED	SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	22 Feb 2011
1127305	CENTENNIAL MUNMORAH PTY LIMITED	SCENIC DRIVE, DOYALSON, NSW 2262	s.80 Surrender of a Licence	Issued	03 May 2011
1012998	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	26 Sep 2003
1039717	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	12 Aug 2004
1104462	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	24 Aug 2009
1115371	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	07 Jul 2011
1509816	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	11 Jan 2013
1516866	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	07 Apr 2014
1525902	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	21 Jan 2015
1534970	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	14 Dec 2015
1543547	DELTA ELECTRICITY	OFF SCENIC DRIVE, DOYALSON, NSW 2262	Compliance Audit	Complete	12 Aug 2016
5002	FULTON HOGAN INDUSTRIES PTY LTD	2-4 DAVID STREET, DOYALSON, NSW 2262	POEO licence	No longer in force	26 Apr 2000

POEO Act Search

Your search for: **General Search** with the following criteria

Suburb - doyalson

returned 35 results

[Export to excel](#)

2 of 2 Pages

[Search Again](#)

Number	Name	Location	Type	Status	Issued date
1017778	FULTON HOGAN INDUSTRIES PTY LTD	2-4 DAVID STREET, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	04 Mar 2003
759	GENERATOR PROPERTY MANAGEMENT PTY LIMITED	OFF SCENIC DRIVE, DOYALSON, NSW 2262	POEO licence	Issued	14 Jun 2000
1565974	GENERATOR PROPERTY MANAGEMENT PTY LIMITED	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	26 Jun 2018
1576069	GENERATOR PROPERTY MANAGEMENT PTY LIMITED	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	26 Mar 2019
1583906	GENERATOR PROPERTY MANAGEMENT PTY LIMITED	OFF SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Pending	26 Jul 2019
191	GREAT SOUTHERN ENERGY PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	POEO licence	Issued	06 Apr 2000
2190	HANSON CONSTRUCTION MATERIALS PTY LTD	LOT 1 PACIFIC HIGHWAY, DOYALSON, NSW 2262	POEO licence	No longer in force	13 Oct 1999
1006250	HANSON CONSTRUCTION MATERIALS PTY LTD	LOT 1 PACIFIC HIGHWAY, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	23 Apr 2001
1562167	HANSON CONSTRUCTION MATERIALS PTY LTD	LOT 1 PACIFIC HIGHWAY, DOYALSON, NSW 2262	s.91 Clean Up Notice	Issued	23 Feb 2018
3173524999	HANSON CONSTRUCTION MATERIALS PTY LTD	LOT 1 PACIFIC HIGHWAY, DOYALSON, NSW 2262	Penalty Notice	Issued	06 Mar 2018
1502568	KENNETH MARTIN GRAHAM	15 Pacific Highway, DOYALSON, NSW 2262	s.91 Clean Up Notice	Issued	30 Nov 2011
1527523	LAKECOAL PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	13 May 2015
1551540	LAKECOAL PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	12 May 2017
1006168	POWERCOAL PTY LTD	SCENIC DRIVE, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	30 Jul 2001
1005801	POWERCOAL PTY LTD	RUTLEYS ROAD, DOYALSON, NSW 2262	s.58 Licence Variation	Issued	13 Aug 2001

[12](#)

28 August 2019



Environment Protection Licence

Licence - 759

Licence Details

Number:	759
Anniversary Date:	01-January

Licensee

GENERATOR PROPERTY MANAGEMENT PTY LIMITED
PO BOX 132
BUDGEWOI NSW 2262

Premises

MUNMORAH POWER STATION
OFF SCENIC DRIVE
DOYALSON NSW 2262

Scheduled Activity

N/A

Fee Based Activity

Miscellaneous licensed discharge to waters (at any time)
--

Scale

> 1000 ML maximum annual volume of discharge authorised

Region

North - Hunter
Ground Floor, NSW Govt Offices, 117 Bull Street
NEWCASTLE WEST NSW 2302
Phone: (02) 4908 6800
Fax: (02) 4908 6810
PO Box 488G
NEWCASTLE NSW 2300

Environment Protection Licence

Licence - 5002

Department of **Environment & Climate Change** NSW



Licence Details

Number:	5002
Anniversary Date:	23-February
Review Due Date:	04-Mar-2011

Licensee

PIONEER ROAD SERVICES PTY LTD
LOCKED BAG 13
WINDSOR NSW 2756

Licence Type

Premises

Premises

PIONEER ROAD SERVICES PTY LTD
2-4 DAVID STREET
DOYALSON NSW 2262

Scheduled Activity

Bitumen mixing

Fee Based Activity

Bitumen mixing

Scale

> 30000 - 100000 T produced

Region

North East - Hunter
Ground Floor, NSW Govt Offices, 117 Bull Street
NEWCASTLE WEST NSW 2302
Phone: 02 49086800
Fax: 02 49086810

PO Box 488G NEWCASTLE
NSW 2300

Environment Protection Licence



Office of
Environment
& Heritage

Licence - 191

Licence Details

Number:	191
Anniversary Date:	01-January

Licensee

CENTENNIAL MANNERING PTY LTD

PO BOX 1000

TORONTO NSW 2283

Premises

MANNERING COLLIERY

RUTLEYS ROAD

DOYALSON NSW 2262

Scheduled Activity

Coal Works

Mining for Coal

Fee Based Activity

Coal works

Mining for coal

Scale

0-2000000 T handled

> 500000-2000000 T produced

Region

North East - Hunter

Ground Floor, NSW Govt Offices, 117 Bull Street

NEWCASTLE WEST NSW 2302

Phone: (02) 4908 6800

Fax: (02) 4908 6810

PO Box 488G NEWCASTLE

NSW 2300

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DENMAN	Former Industrial Site	10 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37945456	150.6868239
DENMAN	Former Industrial Site	9 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37911159	150.6869866
DORA CREEK	Former Service Station	4 Doree PLACE	Service Station	Under assessment	-33.08452746	151.502415
DOYALSON	Part Lot 3 DP 259306	Off David STREET (Central Coast Highway) Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.20436131	151.5232558
DOYALSON	Munmorah Power Station		Unclassified	Regulation under CLM Act not required	-33.20678347	151.540795
DOYALSON	Manning Colliery (formerly Wyee)	Rutleys ROAD	Other Industry	Regulation under CLM Act not required	-33.17179576	151.5419248
DOYALSON NORTH	Caltex Service Station	235 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18501024	151.5526114
DOYALSON NORTH	Shell Coles Express Service Station	260-270 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18636608	151.5482399
DRUMMOYNE	Coles Express Service Station Drummoyne (Eastbound)	36-46 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85576628	151.1593519
DRUMMOYNE	Former Dry Cleaners	225 Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.8507152	151.1537113
DRUMMOYNE	Coles Express Service Station Drummoyne South (Westbound)	39-45 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85606575	151.1589061
DRUMMOYNE	Caltex Service Station	191-195 Lyons ROAD	Service Station	Regulation under CLM Act not required	-33.85699216	151.1460356
DUBBO	BP Reliance Petroleum Service Station (Former Mobil Depot)	107 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24441287	148.6111704
DUBBO	Dubbo Police Station	143 Brisbane STREET	Other Petroleum	Regulation under CLM Act not required	-32.24652288	148.6034702
DUBBO	Shell Coles Express Service Station	131-133 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.25511317	148.6126147
DUBBO	Shell Coles Express Service Station	45-49 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.2474598	148.5932769
DUBBO	Former Mobil depot	40-44 Morgan STREET	Other Petroleum	Regulation under CLM Act not required	-32.23912277	148.6182711
DUBBO	Caltex Service Station, Dubbo	60 Windsor PARADE	Service Station	Regulation under CLM Act not required	-32.25459322	148.6318
DUBBO	BP-Branded Service Station Dubbo West	51-63 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.24827657	148.5927084
DUBBO	Lowes Petroleum (BP-Branded) Depot, Dubbo	105 Erskine STREET	Service Station	Regulation under CLM Act not required	-32.24423247	148.6101676
DUBBO	Inland Petroleum (Former Shell) Depot	109 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24470512	148.6124108
DUBBO	Former Caltex Depot	Phillip (corner Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-32.24534863	148.6150144

Search results

Your search for: Suburb: DOYALSON

[Search Again](#)

[Refine Search](#)

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the [planning process](#).

More information about particular sites may be available from:

- The [POEO public register](#)
- The appropriate planning authority: for example, on a planning certificate issued by the local council under [section 149 of the Environmental Planning and Assessment Act](#).

See [What's in the record and What's not in the record](#).

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register: [POEO public register](#)

Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... [more search tips](#)

Search Results

[new search](#)

No results found.

Enter at least one search criterion.

[Search Hints](#)

<input type="button" value="Search"/> <input type="button" value="Reset form"/>	
Place name	<input type="text"/>
Street name	<input type="text"/>
Town or suburb	State
doyalson	New South Wales ▼
Country	
australia	

[Advanced search options](#)

NSW Heritage Database

Search for NSW heritage

Your search did not return any matching results. Please refine your search and try again.

Here you can search the State Heritage Inventory. The State Heritage Inventory is a database of heritage items in New South Wales which includes:

- declared Aboriginal Places
- items listed on the State Heritage Register
- listed Interim Heritage Orders
- items on State Agency Heritage Registers, and,
- items listed of local heritage significance on a local council's Local Environmental Plan.

NSW's maritime heritage, that is not a site listed on the State Heritage Register, is held in a separate database. You can search for shipwrecks, submerged aircraft and other maritime heritage sites in the [Maritime Heritage Database](#).

For more information about Aboriginal Places and other sites of significance refer to [Aboriginal Heritage Information Management System](#).

We work to keep the State Heritage Inventory up to date. We rely on State agencies and local councils to provide updated information when applicable. It's recommended that you check with the relevant State agency or local council for the most up-to-date information.

Basic search criteria

Item name/database ID:	<input type="text"/>
Street name:	<input type="text"/>
Suburb/town:	doyalson
Local Government Area:	Please Choose... ▼
Local Aboriginal Land Council (LALC):	Please Choose... ▼

(For Aboriginal Place and State Heritage Register only)

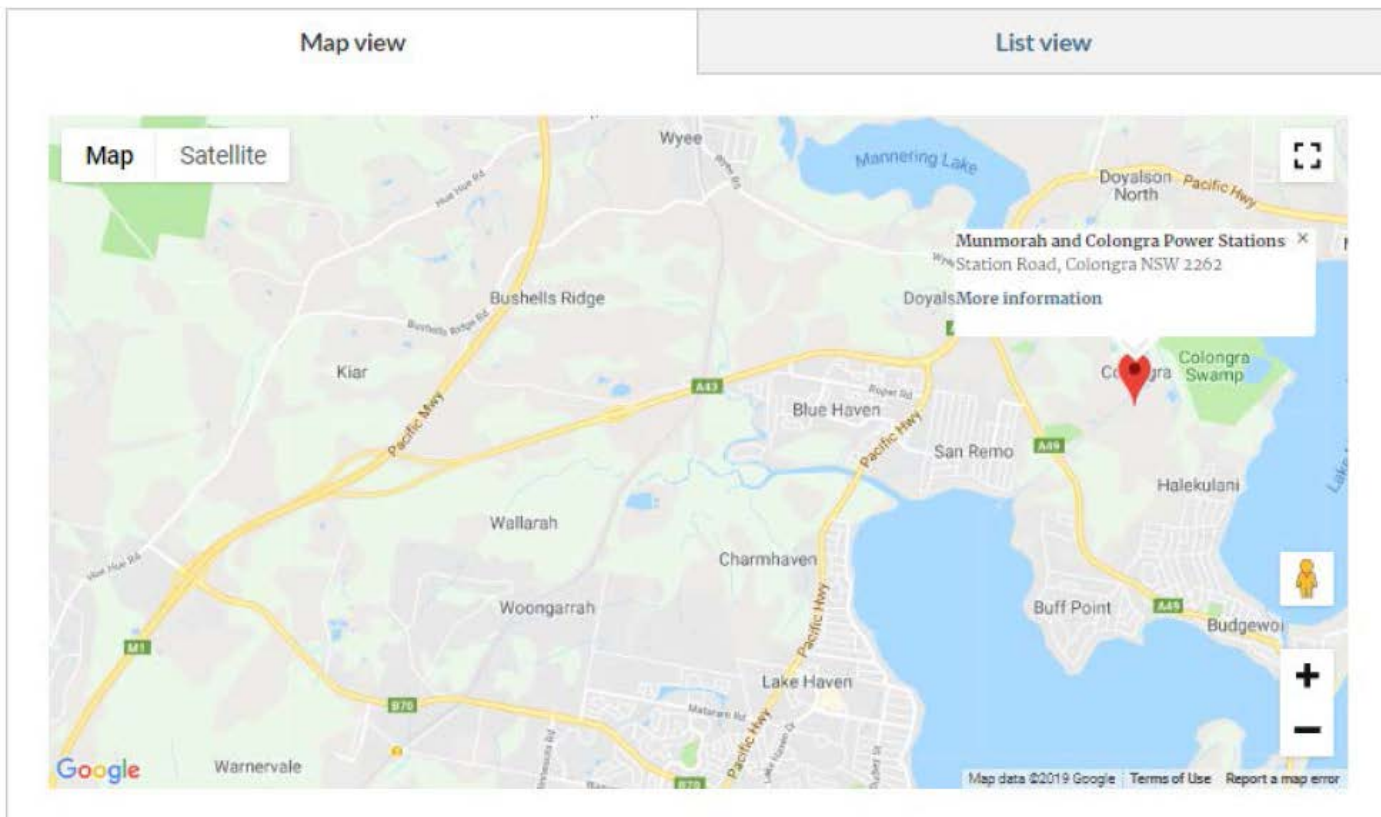
Appendix E PFAS Investigation Search

The NSW Government PFAS Investigation Program

NSW has a nation leading, state-wide PFAS investigation program underway to identify the use and impacts of legacy PFAS.

The EPA is leading an investigation program to assess the legacy of PFAS use across NSW. With the assistance of the NSW PFAS Taskforce, which includes NSW Health, Department of Primary Industries and the Office of Environment and Heritage, we provide impacted residents with tailored, precautionary dietary advice to help them reduce any exposure to PFAS.

Current investigations are focused on sites where it is likely that large quantities of PFAS have been used. The EPA is currently investigating PFAS at these sites:



PFAS INVESTIGATION AREA
Extracted from GHD 2018



Legend

-  PFAS Investigation Site

Appendix F Council Section 10.7



ABN 73 149 644 003
Certificate No:24830
Reference No: 56387:147536

Mr R Lill
1/50 Margaret St
SYDNEY NSW 2000

SECTION 10.7(2) AND (5) PLANNING CERTIFICATE

This Planning Certificate is issued on 22 August 2019 in respect to the land described below, pursuant to s.10.7 of the Environmental Planning and Assessment Act 1979

Fee paid: \$133.00
Receipt No: 13989063
Receipt Date: 22 August 2019

DESCRIPTION OF LAND COUNTY OF NORTHUMBERLAND

Property Address: Doyalson RSL Club, 49-65 Wentworth Avenue, DOYALSON NSW 2262
Property Description: LOTS 1 to 9 DP 215875
Property Owner: Doyalson Wyee RSL Club Ltd

The information contained within this certificate relates to the land.

1 RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

1.1 Environmental Planning Instruments which apply to the land

Wyong Local Environmental Plan 2013

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy No 21 – Caravan Parks
State Environmental Planning Policy No 36 – Manufactured Home Estates
State Environmental Planning Policy No 44 – Koala Habitat Protection
State Environmental Planning Policy No 50 – Canal Estate Development
State Environmental Planning Policy No 55 – Remediation of Land
State Environmental Planning Policy No 64 – Advertising and Signage
State Environmental Planning Policy No 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy (State Significant Precincts) 2005
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy (Infrastructure) 2007
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy (Affordable Rental Housing) 2009
State Environmental Planning Policy (State and Regional Development) 2011
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy (Primary Production and Rural Development) 2019

1.2 Proposed Environmental Planning Instruments which will apply to the land and is or has been the subject of community consultation or public exhibition

Draft Central Coast Local Environmental Plan will replace Gosford Local Environmental Plan 2014, Interim Development Order No. 122 – Gosford, Gosford Planning Scheme Ordinance and Wyong Local Environmental Plan 2013.

The land is subject to an amendment to *Wyong Local Environmental Plan 2013*

Draft Amendment to State Environmental Planning Policy No 44 – Koala Habitat Protection
Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

1.3 Development Control Plans

Development Control Plan 2013 applies to this land.

2 ZONING AND LAND USE

a Identity of the Zone

Lots 1 to 9 DP 215875

RE2 Private Recreation

Identity of the zone in Proposed Environmental Planning Instrument

Lots 1 to 9 DP 215875

Proposed RE2 Private Recreation

For each of the environmental planning instruments referred to in clause 1, please refer to the attached land use table to determine (b), (c) and (d) listed below:

- b development that may be carried out within the zone without the need for development consent,

- c development which may not be carried out within the zone except with development consent and
- d development which is prohibited within the zone

e Development Standards applying to the land

Nil

Notwithstanding the above, reference should be made to Clause 4.2B of the Local Environmental Plan, which may contain other provisions enabling or restricting the erection of Dual Occupancies and Dwelling Houses on the land.

Development Standards in Proposed Environmental Planning Instrument

There are no development standards applying to the land that fix minimum land dimensions for the erection of a dwelling-house on the land. However there are minimum lot sizes applying to the subdivision of land, and in some zones the entitlement to erect a dwelling-house, or carry out other types of residential development, is linked to that minimum lot size.

f Critical Habitat

Nil

g Conservation Area

Nil

h Environmental Heritage

Nil

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

Not applicable

3 COMPLYING DEVELOPMENT

Whether or not the land is land on which complying development can be carried out under each of the codes for complying development because of the provisions of clause 1.17A (c) and (d) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*?

1. PART 3 – HOUSING CODE

- a Complying Development under the General Housing Code **may** be carried out

on the land.

2. PART 3A – RURAL HOUSING CODE

- a Complying development under the Rural Housing Code **may** be carried out on the land providing the land is not less than the minimum lot size for the erection of a dwelling house under the Wyong Local Environmental Plan 2013.

3. PART 3B – LOW RISE MEDIUM DENSITY HOUSING CODE

- a Complying Development under the Low Rise Medium Density Housing Code **may** be carried out on the land.

4. PART 4 – HOUSING ALTERATIONS CODE

- a Complying development under the Housing Alterations Code **may** be carried out on the land.

5. PART 4A – GENERAL DEVELOPMENT CODE

- a Complying development under the General Development Code **may** be carried out on the land.

6. PART 5 – COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

- a Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

7. PART 5A – COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

- a Complying development under the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land.

8. PART 5B – CONTAINER RECYCLING FACILITIES CODE

- a Complying Development under the Container Recycling Facilities Code **may** be carried out on the land.

9. PART 6 – SUBDIVISIONS CODE

- a Complying development under the Subdivisions Code **may** be carried out on the land.

10. PART 7 – DEMOLITION CODE

- a Complying development under the Demolition code **may** be carried out on the land.

11. PART 8 – FIRE SAFETY CODE

- a Complying development under the Fire Safety Code **may** be carried out on the land.

4, 4A (Repealed)

4B ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works.

5 MINE SUBSIDENCE

The land is within a proclaimed mine subsidence district under the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING OR ROAD ALIGNMENT

(a) DIVISION 2 SECTION 25 OF THE ROADS ACT 1993

The land is not affected by road realignment or road widening under the above.

(b) ENVIRONMENTAL PLANNING INSTRUMENT

The land is not affected by road widening or road re-alignment under the above.

(c) COUNCIL RESOLUTIONS

The land is not affected by road widening or road re-alignment under the above.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES TO RESTRICT DEVELOPMENT DUE TO RISK

This land is affected by a policy adopted by the council or other public authority that restricts the development of the land because of the likelihood of risk restrictions. This land is affected because:

Lots 5, 6, 7, 8, & 9 of DP 215875

The land is classed as being Acid Sulfate Soil Class 5

7A FLOOD RELATED DEVELOPMENT CONTROLS

1. Development on this land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or senior housing) is **not** subject to flood related development controls.
2. Development on this land or part of the land for any other purpose is **not** subject to flood related development controls.

A word or expression used in this clause has the same meaning as it has in the *Floodplain Development Manual* (ISBN 0 7347 5476 0), published by the NSW Government in April 2005, unless it is otherwise defined in this Plan.

8 LAND RESERVED FOR ACQUISITION

The following environmental planning instruments and proposed environmental planning instruments make provisions for the acquisition of land by a public authority as referred to in Section 3.15 of the Act:

Nil

9 CONTRIBUTION PLANS

This land is subject to the Wyong Shire Section 94A Levy Development Contributions Plan.

This land is subject to the Section 94 Contributions Plan for Wyong Shire No. 11 - Shirewide Infrastructure, Services and Facilities.

9A BIODIVERSITY CERTIFIED LAND

The land is **not** biodiversity certified land within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*.

10 BIOBANKING AGREEMENTS

Council has not been notified by the Director-General of the Department of Planning and Environment of an agreement issued under Part 7A of the *Threatened Species Conservation Act 1995*.

11 BUSHFIRE PRONE LAND

Lots 1 & 2 of DP 215875

The information currently available to Council indicates **all** of the land is shown as bush fire prone land according to the Act.

Lots 3 & 4 of DP 215875

The information currently available to Council indicates **some** of the land is shown as bush fire prone land according to the Act.

Lots 5, 6, 7, 8, & 9 of DP 215875

The information currently available to Council indicates that this land **is not** bush fire prone land according to the Act.

12 PROPERTY VEGETATION PLAN

This land is not subject to a property vegetation plan under the Native Vegetation Act 2003.

NOTE: The advice provided in this section is based on notification by the Local Land Services - Greater Sydney of the approval of a plan. Further information about property vegetation plans should be obtained from that Authority.

13 ORDER UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Council has not been notified of an Order issued under the Trees (Disputes between Neighbours) Act 2006.

NOTE: This advice is based on information provided by the Land and Environment Court.

14 DIRECTIONS UNDER PART 3A

Not Applicable

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

17 SITE COMPATIBILITY CERTIFICATES FOR AFFORDABLE RENTAL HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

18 PAPER SUBDIVISION INFORMATION

- (1) THE NAME OF ANY DEVELOPMENT PLAN ADOPTED BY A RELEVANT AUTHORITY THAT APPLIES TO THIS LAND OR THAT IS PROPOSED TO BE SUBJECT TO A CONSENT BALLOT.

Nil

- (2) THE DATE OF ANY SUBDIVISION ORDER THAT APPLIES TO THIS LAND.

Not applicable

Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19 SITE VERIFICATION CERTIFICATE

Council is not aware of a Site Verification Certificate having been issued by the Director-General of the Department of Planning and Environment in respect to this land.

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land—see Division 3 of Part 4AA of *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*.

20 LOOSE-FILL ASBESTOS INSULATION

This land does not include any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division. That register lists residential premises that contain or have contained loose-fill asbestos insulation.

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS (Building Products Safety Act 2017)

1. Is there any affected building notice of which the council is aware that is in force in respect of the land?

No

- 2.a Is there any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with?

No

- 2.b Is there any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No

22 CONTAMINATED LAND MANAGEMENT ACT 1997

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

- (a) The land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No

- (b) The land to which the certificate relates is subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (c) The land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No

- (d) The land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (e) The land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No

23 ADVICE PROVIDED PURSUANT TO S.10.7(5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

23.1 Prescribed Streams

Approval of the NSW Office of Water is required before the removal of any native vegetation within 20 metres of a prescribed stream. Contact the Office of Water for

details.

For any enquiries regarding this Certificate please contact Council's Customer Contact Centre on 4350 5555.



Ananya Senjuti
Signed on Behalf of Council

LAND USE TABLE

Zone RE2 Private Recreation Wyong Local Environmental Plan 2013

1 Objectives of zone

- To enable land to be used for private open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To offer opportunities for tourism development that is compatible with the natural environment.
- To allow for alternative uses of open space areas for community purposes that are compatible with surrounding areas.
- To enable land uses that are compatible with, and complementary to, recreational uses.

2 Permitted without consent

Nil

3 Permitted with consent

Amusement centres; Aquaculture; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Charter and tourism boating facilities; Community facilities; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Food and drink premises; Function centres; Information and education facilities; Jetties; Kiosks; Marinas; Markets; Mooring pens; Moorings; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Roads; Sewerage systems; Water recreation structures; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3

DRAFT LAND USE TABLE

Zone RE2 Private Recreation Draft Central Coast Local Environmental Plan

1 Objectives of zone

- To enable land to be used for private open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To offer opportunities for community and/or tourist development that is compatible with the natural environment.

2 Permitted without consent

Nil

3 Permitted with consent

Amusement centres; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Charter and tourism boating facilities; Community facilities; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Food and drink premises; Function centres; Information and education facilities; Jetties; Kiosks; Marinas; Markets; Mooring pens; Moorings; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Roads; Sewerage systems; Water recreation structures; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3



ABN 73 149 644 003
Certificate No:24832
Reference No: 56387:147536

Mr R Lill
1/50 Margaret St
SYDNEY NSW 2000

SECTION 10.7(2) AND (5) PLANNING CERTIFICATE

This Planning Certificate is issued on 22 August 2019 in respect to the land described below, pursuant to s.10.7 of the Environmental Planning and Assessment Act 1979

Fee paid: \$133.00
Receipt No: 13989063
Receipt Date: 22 August 2019

DESCRIPTION OF LAND COUNTY OF NORTHUMBERLAND

Property Address: Doyalson RSL Club, 80 Pacific Highway, DOYALSON
NSW 2262
Property Description: Lot 1 DP 503655
Property Owner: Doyalson Wyee RSL Club Ltd

The information contained within this certificate relates to the land.

1 RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

1.1 Environmental Planning Instruments which apply to the land

Wyong Local Environmental Plan 2013

State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy No 21 – Caravan Parks
State Environmental Planning Policy No 36 – Manufactured Home Estates
State Environmental Planning Policy No 44 – Koala Habitat Protection
State Environmental Planning Policy No 50 – Canal Estate Development
State Environmental Planning Policy No 55 – Remediation of Land
State Environmental Planning Policy No 64 – Advertising and Signage
State Environmental Planning Policy No 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy (State Significant Precincts) 2005
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy (Infrastructure) 2007
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy (Affordable Rental Housing) 2009
State Environmental Planning Policy (State and Regional Development) 2011
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy (Primary Production and Rural Development) 2019

1.2 Proposed Environmental Planning Instruments which will apply to the land and is or has been the subject of community consultation or public exhibition

Draft Central Coast Local Environmental Plan will replace Gosford Local Environmental Plan 2014, Interim Development Order No. 122 – Gosford, Gosford Planning Scheme Ordinance and Wyong Local Environmental Plan 2013.

2The land is subject to an amendment to *Wyong Local Environmental Plan 2013*

Draft Amendment to State Environmental Planning Policy No 44 – Koala Habitat Protection
Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

1.3 Development Control Plans

Development Control Plan 2013 applies to this land.

2 ZONING AND LAND USE

a Identity of the Zone

Lot 1 DP 503655

RE2 Private Recreation

Identity of the zone in Proposed Environmental Planning Instrument

Lot 1 DP 503655

Proposed RE2 Private Recreation

For each of the environmental planning instruments referred to in clause 1, please refer to the attached land use table to determine (b), (c) and (d) listed below:

- b development that may be carried out within the zone without the need for development consent,

- c development which may not be carried out within the zone except with development consent and
- d development which is prohibited within the zone

e Development Standards applying to the land

Nil

Notwithstanding the above, reference should be made to Clause 4.2B of the Local Environmental Plan, which may contain other provisions enabling or restricting the erection of Dual Occupancies and Dwelling Houses on the land.

Development Standards in Proposed Environmental Planning Instrument

There are no development standards applying to the land that fix minimum land dimensions for the erection of a dwelling-house on the land. However there are minimum lot sizes applying to the subdivision of land, and in some zones the entitlement to erect a dwelling-house, or carry out other types of residential development, is linked to that minimum lot size.

f Critical Habitat

Nil

g Conservation Area

Nil

h Environmental Heritage

Nil

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

Not applicable

3 COMPLYING DEVELOPMENT

Whether or not the land is land on which complying development can be carried out under each of the codes for complying development because of the provisions of clause 1.17A (c) and (d) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*?

1. PART 3 – HOUSING CODE

- a Complying Development under the General Housing Code **may** be carried out

on the land.

2. PART 3A – RURAL HOUSING CODE

- a Complying development under the Rural Housing Code **may** be carried out on the land providing the land is not less than the minimum lot size for the erection of a dwelling house under the Wyong Local Environmental Plan 2013.

3. PART 3B – LOW RISE MEDIUM DENSITY HOUSING CODE

- a Complying Development under the Low Rise Medium Density Housing Code **may** be carried out on the land.

4. PART 4 – HOUSING ALTERATIONS CODE

- a Complying development under the Housing Alterations Code **may** be carried out on the land.

5. PART 4A – GENERAL DEVELOPMENT CODE

- a Complying development under the General Development Code **may** be carried out on the land.

6. PART 5 – COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

- a Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

7. PART 5A – COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

- a Complying development under the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land.

8. PART 5B – CONTAINER RECYCLING FACILITIES CODE

- a Complying Development under the Container Recycling Facilities Code **may** be carried out on the land.

9. PART 6 – SUBDIVISIONS CODE

- a Complying development under the Subdivisions Code **may** be carried out on the land.

10. PART 7 – DEMOLITION CODE

- a Complying development under the Demolition code **may** be carried out on the land.

11. PART 8 – FIRE SAFETY CODE

- a Complying development under the Fire Safety Code **may** be carried out on the land.

4, 4A (Repealed)

4B ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works.

5 MINE SUBSIDENCE

The land is within a proclaimed mine subsidence district under the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING OR ROAD ALIGNMENT

(a) DIVISION 2 SECTION 25 OF THE ROADS ACT 1993

The land is not affected by road realignment or road widening under the above.

(b) ENVIRONMENTAL PLANNING INSTRUMENT

The land is not affected by road widening or road re-alignment under the above.

(c) COUNCIL RESOLUTIONS

The land is not affected by road widening or road re-alignment under the above.

However, it should be noted that this parcel either fronts or abuts a road under the control of the Roads and Maritime Services. For further details regarding road widening please refer to that agency.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES TO RESTRICT DEVELOPMENT DUE TO RISK

This land is affected by a policy adopted by the council or other public authority that restricts the development of the land because of the likelihood of risk restrictions. This land is affected because:

The land is classed as being Acid Sulfate Soil Class 5

7A FLOOD RELATED DEVELOPMENT CONTROLS

1. Development on this land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or senior housing) is **not** subject to flood related development controls.
2. Development on this land or part of the land for any other purpose is **not** subject to flood related development controls.

A word or expression used in this clause has the same meaning as it has in the *Floodplain Development Manual* (ISBN 0 7347 5476 0), published by the NSW Government in April 2005, unless it is otherwise defined in this Plan.

8 LAND RESERVED FOR ACQUISITION

The following environmental planning instruments and proposed environmental planning instruments make provisions for the acquisition of land by a public authority as referred to in Section 3.15 of the Act:

Nil

9 CONTRIBUTION PLANS

This land is subject to the Wyong Shire Section 94A Levy Development Contributions Plan.

This land is subject to the Section 94 Contributions Plan for Wyong Shire No. 11 - Shirewide Infrastructure, Services and Facilities.

9A BIODIVERSITY CERTIFIED LAND

The land **is not** biodiversity certified land within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*.

10 BIOBANKING AGREEMENTS

Council has not been notified by the Director-General of the Department of Planning and Environment of an agreement issued under Part 7A of the *Threatened Species Conservation Act 1995*.

11 BUSHFIRE PRONE LAND

The information currently available to Council indicates **some** of the land is shown as bush fire prone land according to the Act.

12 PROPERTY VEGETATION PLAN

This land is not subject to a property vegetation plan under the Native Vegetation Act 2003.

NOTE: The advice provided in this section is based on notification by the Local Land Services - Greater Sydney of the approval of a plan. Further information about property vegetation plans should be obtained from that Authority.

13 ORDER UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Council has not been notified of an Order issued under the Trees (Disputes between Neighbours) Act 2006.

NOTE: This advice is based on information provided by the Land and Environment Court.

14 DIRECTIONS UNDER PART 3A

Not Applicable

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

17 SITE COMPATIBILITY CERTIFICATES FOR AFFORDABLE RENTAL HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

18 PAPER SUBDIVISION INFORMATION

- (1) THE NAME OF ANY DEVELOPMENT PLAN ADOPTED BY A RELEVANT AUTHORITY THAT APPLIES TO THIS LAND OR THAT IS PROPOSED TO BE SUBJECT TO A CONSENT BALLOT.

Nil

- (2) THE DATE OF ANY SUBDIVISION ORDER THAT APPLIES TO THIS LAND.

Not applicable

Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19 SITE VERIFICATION CERTIFICATE

Council is not aware of a Site Verification Certificate having been issued by the Director-General of the Department of Planning and Environment in respect to this land.

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land—see Division 3 of Part 4AA of *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*.

20 LOOSE-FILL ASBESTOS INSULATION

This land does not include any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division. That register lists residential premises that contain or have contained loose-fill asbestos insulation.

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS (Building Products Safety Act 2017)

1. Is there any affected building notice of which the council is aware that is in force in respect of the land?

No

- 2.a Is there any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with?

No

- 2.b Is there any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No

22 CONTAMINATED LAND MANAGEMENT ACT 1997

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

- (a) The land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No

- (b) The land to which the certificate relates is subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (c) The land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No

- (d) The land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (e) The land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.


No

23 ADVICE PROVIDED PURSUANT TO S.10.7(5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

23.1 Prescribed Streams

Approval of the NSW Office of Water is required before the removal of any native vegetation within 20 metres of a prescribed stream. Contact the Office of Water for details.

For any enquiries regarding this Certificate please contact Council's Customer Contact Centre on 4350 5555.

A handwritten signature in black ink, consisting of a large, stylized 'E' with a diagonal line through it, and a horizontal line above it.

Tim Ennis
Signed on Behalf of Council

LAND USE TABLE

Zone RE2 Private Recreation Wyong Local Environmental Plan 2013

1 Objectives of zone

- To enable land to be used for private open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To offer opportunities for tourism development that is compatible with the natural environment.
- To allow for alternative uses of open space areas for community purposes that are compatible with surrounding areas.
- To enable land uses that are compatible with, and complementary to, recreational uses.

2 Permitted without consent

Nil

3 Permitted with consent

Amusement centres; Aquaculture; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Charter and tourism boating facilities; Community facilities; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Food and drink premises; Function centres; Information and education facilities; Jetties; Kiosks; Marinas; Markets; Mooring pens; Moorings; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Roads; Sewerage systems; Water recreation structures; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3

DRAFT LAND USE TABLE

Zone RE2 Private Recreation Draft Central Coast Local Environmental Plan

1 Objectives of zone

- To enable land to be used for private open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To offer opportunities for community and/or tourist development that is compatible with the natural environment.

2 Permitted without consent

Nil

3 Permitted with consent

Amusement centres; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Charter and tourism boating facilities; Community facilities; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Food and drink premises; Function centres; Information and education facilities; Jetties; Kiosks; Marinas; Markets; Mooring pens; Moorings; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Roads; Sewerage systems; Water recreation structures; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3



ABN 73 149 644 003
Certificate No:24833
Reference No: 56387:147536

Mr R Lill
1/50 Margaret St
SYDNEY NSW 2000

SECTION 10.7(2) AND (5) PLANNING CERTIFICATE

This Planning Certificate is issued on 22 August 2019 in respect to the land described below, pursuant to s.10.7 of the Environmental Planning and Assessment Act 1979

Fee paid: \$133.00
Receipt No: 13989063
Receipt Date: 22 August 2019

DESCRIPTION OF LAND COUNTY OF NORTHUMBERLAND

Property Address: Doyalson RSL Club, 90 Pacific Highway, DOYALSON
NSW 2262
Property Description: Lot 11 DP 240685
Property Owner: Doyalson Wyee RSL Club Ltd

The information contained within this certificate relates to the land.

1 RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

1.1 Environmental Planning Instruments which apply to the land

Wyong Local Environmental Plan 2013

State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy No 21 – Caravan Parks
State Environmental Planning Policy No 36 – Manufactured Home Estates
State Environmental Planning Policy No 44 – Koala Habitat Protection
State Environmental Planning Policy No 50 – Canal Estate Development
State Environmental Planning Policy No 55 – Remediation of Land
State Environmental Planning Policy No 64 – Advertising and Signage
State Environmental Planning Policy No 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy (State Significant Precincts) 2005
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy (Infrastructure) 2007
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy (Affordable Rental Housing) 2009
State Environmental Planning Policy (State and Regional Development) 2011
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy (Primary Production and Rural Development) 2019

1.2 Proposed Environmental Planning Instruments which will apply to the land and is or has been the subject of community consultation or public exhibition

Draft Central Coast Local Environmental Plan will replace Gosford Local Environmental Plan 2014, Interim Development Order No. 122 – Gosford, Gosford Planning Scheme Ordinance and Wyong Local Environmental Plan 2013.

2The land is subject to an amendment to *Wyong Local Environmental Plan 2013*

Draft Amendment to State Environmental Planning Policy No 44 – Koala Habitat Protection
Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

1.3 Development Control Plans

Development Control Plan 2013 applies to this land.

2 ZONING AND LAND USE

a Identity of the Zone

Lot 11 DP 240685

RE2 Private Recreation

Identity of the zone in Proposed Environmental Planning Instrument

Lot 11 DP 240685

Proposed RE2 Private Recreation

For each of the environmental planning instruments referred to in clause 1, please refer to the attached land use table to determine (b), (c) and (d) listed below:

- b development that may be carried out within the zone without the need for development consent,

- c development which may not be carried out within the zone except with development consent and
- d development which is prohibited within the zone

e Development Standards applying to the land

Nil

Notwithstanding the above, reference should be made to Clause 4.2B of the Local Environmental Plan, which may contain other provisions enabling or restricting the erection of Dual Occupancies and Dwelling Houses on the land.

Development Standards in Proposed Environmental Planning Instrument

There are no development standards applying to the land that fix minimum land dimensions for the erection of a dwelling-house on the land. However there are minimum lot sizes applying to the subdivision of land, and in some zones the entitlement to erect a dwelling-house, or carry out other types of residential development, is linked to that minimum lot size.

f Critical Habitat

Nil

g Conservation Area

Nil

h Environmental Heritage

Nil

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

Not applicable

3 COMPLYING DEVELOPMENT

Whether or not the land is land on which complying development can be carried out under each of the codes for complying development because of the provisions of clause 1.17A (c) and (d) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*?

1. PART 3 – HOUSING CODE

- a Complying Development under the General Housing Code **may** be carried out

on the land.

2. PART 3A – RURAL HOUSING CODE

- a Complying development under the Rural Housing Code **may** be carried out on the land providing the land is not less than the minimum lot size for the erection of a dwelling house under the Wyong Local Environmental Plan 2013.

3. PART 3B – LOW RISE MEDIUM DENSITY HOUSING CODE

- a Complying Development under the Low Rise Medium Density Housing Code **may** be carried out on the land.

4. PART 4 – HOUSING ALTERATIONS CODE

- a Complying development under the Housing Alterations Code **may** be carried out on the land.

5. PART 4A – GENERAL DEVELOPMENT CODE

- a Complying development under the General Development Code **may** be carried out on the land.

6. PART 5 – COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

- a Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

7. PART 5A – COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

- a Complying development under the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land.

8. PART 5B – CONTAINER RECYCLING FACILITIES CODE

- a Complying Development under the Container Recycling Facilities Code **may** be carried out on the land.

9. PART 6 – SUBDIVISIONS CODE

- a Complying development under the Subdivisions Code **may** be carried out on the land.

10. PART 7 – DEMOLITION CODE

- a Complying development under the Demolition code **may** be carried out on the land.

11. PART 8 – FIRE SAFETY CODE

- a Complying development under the Fire Safety Code **may** be carried out on the land.

4, 4A (Repealed)

4B ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works.

5 MINE SUBSIDENCE

The land is within a proclaimed mine subsidence district under the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING OR ROAD ALIGNMENT

(a) DIVISION 2 SECTION 25 OF THE ROADS ACT 1993

The land is not affected by road realignment or road widening under the above.

(b) ENVIRONMENTAL PLANNING INSTRUMENT

The land is not affected by road widening or road re-alignment under the above.

(c) COUNCIL RESOLUTIONS

The land is not affected by road widening or road re-alignment under the above.

However, it should be noted that this parcel either fronts or abuts a road under the control of the Roads and Maritime Services. For further details regarding road widening please refer to that agency.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES TO RESTRICT DEVELOPMENT DUE TO RISK

This land is affected by a policy adopted by the council or other public authority that restricts the development of the land because of the likelihood of risk restrictions. This land is affected because:

The land is classed as being Acid Sulfate Soil Class 4

The land is classed as being Acid Sulfate Soil Class 5

7A FLOOD RELATED DEVELOPMENT CONTROLS

1. Development on this land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or senior housing) is **not** subject to flood related development controls.
2. Development on this land or part of the land for any other purpose is **not** subject to flood related development controls.

A word or expression used in this clause has the same meaning as it has in the *Floodplain Development Manual* (ISBN 0 7347 5476 0), published by the NSW Government in April 2005, unless it is otherwise defined in this Plan.

8 LAND RESERVED FOR ACQUISITION

The following environmental planning instruments and proposed environmental planning instruments make provisions for the acquisition of land by a public authority as referred to in Section 3.15 of the Act:

Nil

9 CONTRIBUTION PLANS

This land is subject to the Wyong Shire Section 94A Levy Development Contributions Plan.

This land is subject to the Section 94 Contributions Plan for Wyong Shire No. 11 - Shirewide Infrastructure, Services and Facilities.

9A BIODIVERSITY CERTIFIED LAND

The land **is not** biodiversity certified land within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*.

10 BIOBANKING AGREEMENTS

Council has not been notified by the Director-General of the Department of Planning and Environment of an agreement issued under Part 7A of the *Threatened Species Conservation Act 1995*.

11 BUSHFIRE PRONE LAND

The information currently available to Council indicates **some** of the land is shown as bush fire prone land according to the Act.

12 PROPERTY VEGETATION PLAN

This land is not subject to a property vegetation plan under the Native Vegetation Act 2003.

NOTE: The advice provided in this section is based on notification by the Local Land Services - Greater Sydney of the approval of a plan. Further information about property vegetation plans should be obtained from that Authority.

13 ORDER UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Council has not been notified of an Order issued under the Trees (Disputes between Neighbours) Act 2006.

NOTE: This advice is based on information provided by the Land and Environment Court.

14 DIRECTIONS UNDER PART 3A

Not Applicable

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

17 SITE COMPATIBILITY CERTIFICATES FOR AFFORDABLE RENTAL HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

18 PAPER SUBDIVISION INFORMATION

- (1) THE NAME OF ANY DEVELOPMENT PLAN ADOPTED BY A RELEVANT AUTHORITY THAT APPLIES TO THIS LAND OR THAT IS PROPOSED TO BE SUBJECT TO A CONSENT BALLOT.

Nil

- (2) THE DATE OF ANY SUBDIVISION ORDER THAT APPLIES TO THIS LAND.

Not applicable

Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19 SITE VERIFICATION CERTIFICATE

Council is not aware of a Site Verification Certificate having been issued by the Director-General of the Department of Planning and Environment in respect to this land.

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land—see Division 3 of Part 4AA of *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*.

20 LOOSE-FILL ASBESTOS INSULATION

This land does not include any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division. That register lists residential premises that contain or have contained loose-fill asbestos insulation.

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS (Building Products Safety Act 2017)

1. Is there any affected building notice of which the council is aware that is in force in respect of the land?

No

- 2.a Is there any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with?

No

- 2.b Is there any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No

22 CONTAMINATED LAND MANAGEMENT ACT 1997

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

- (a) The land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No

- (b) The land to which the certificate relates is subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (c) The land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No

- (d) The land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (e) The land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No

23 ADVICE PROVIDED PURSUANT TO S.10.7(5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

23.1 Prescribed Streams

Approval of the NSW Office of Water is required before the removal of any native vegetation within 20 metres of a prescribed stream. Contact the Office of Water for details.

For any enquiries regarding this Certificate please contact Council's Customer Contact Centre on 4350 5555.

A handwritten signature in black ink, appearing to be 'TE' with a long horizontal stroke above it.

Tim Ennis
Signed on Behalf of Council

LAND USE TABLE

Zone RE2 Private Recreation Wyong Local Environmental Plan 2013

1 Objectives of zone

- To enable land to be used for private open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To offer opportunities for tourism development that is compatible with the natural environment.
- To allow for alternative uses of open space areas for community purposes that are compatible with surrounding areas.
- To enable land uses that are compatible with, and complementary to, recreational uses.

2 Permitted without consent

Nil

3 Permitted with consent

Amusement centres; Aquaculture; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Charter and tourism boating facilities; Community facilities; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Food and drink premises; Function centres; Information and education facilities; Jetties; Kiosks; Marinas; Markets; Mooring pens; Moorings; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Roads; Sewerage systems; Water recreation structures; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3

DRAFT LAND USE TABLE

Zone RE2 Private Recreation Draft Central Coast Local Environmental Plan

1 Objectives of zone

- To enable land to be used for private open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.
- To offer opportunities for community and/or tourist development that is compatible with the natural environment.

2 Permitted without consent

Nil

3 Permitted with consent

Amusement centres; Boat launching ramps; Boat sheds; Building identification signs; Business identification signs; Camping grounds; Caravan parks; Charter and tourism boating facilities; Community facilities; Eco-tourist facilities; Emergency services facilities; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Food and drink premises; Function centres; Information and education facilities; Jetties; Kiosks; Marinas; Markets; Mooring pens; Moorings; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Roads; Sewerage systems; Water recreation structures; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3



ABN 73 149 644 003
Certificate No:24834
Reference No: 56387:147536

Mr R Lill
1/50 Margaret St
SYDNEY NSW 2000

SECTION 10.7(2) AND (5) PLANNING CERTIFICATE

This Planning Certificate is issued on 22 August 2019 in respect to the land described below, pursuant to s.10.7 of the Environmental Planning and Assessment Act 1979

Fee paid: \$133.00
Receipt No: 13989063
Receipt Date: 22 August 2019

DESCRIPTION OF LAND COUNTY OF NORTHUMBERLAND

Property Address: Doyalson RSL Club, 100 Pacific Highway, DOYALSON
NSW 2262
Property Description: Lot 49 DP 707586
Property Owner: Doyalson Wyee RSL Club Ltd

The information contained within this certificate relates to the land.

1 RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

1.1 Environmental Planning Instruments which apply to the land

Wyong Local Environmental Plan 2013

State Environmental Planning Policy (Infrastructure) 2007
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy (Primary Production and Rural Development) 2019
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
State Environmental Planning Policy No 64 – Advertising and Signage
State Environmental Planning Policy No 21 – Caravan Parks
State Environmental Planning Policy No 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy (State Significant Precincts) 2005
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy (State and Regional Development) 2011
State Environmental Planning Policy No 44 – Koala Habitat Protection

State Environmental Planning Policy (Affordable Rental Housing) 2009
State Environmental Planning Policy No 36 – Manufactured Home Estates
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy No 50 – Canal Estate Development
State Environmental Planning Policy No 55 – Remediation of Land
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004

1.2 Proposed Environmental Planning Instruments which will apply to the land and is or has been the subject of community consultation or public exhibition

The land is subject to an amendment to *Wyong Local Environmental Plan 2013*. A Draft Central Coast Local Environmental Plan will replace Gosford Local Environmental Plan 2014, Interim Development Order No. 122 – Gosford, Gosford Planning Scheme Ordinance and Wyong Local Environmental Plan 2013.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
Draft Amendment to State Environmental Planning Policy No 44 – Koala Habitat Protection

1.3 Development Control Plans

Development Control Plan 2013 applies to this land.

2 ZONING AND LAND USE

a Identity of the Zone

Lot 49 DP 707586

RU6 Transition

Identity of the zone in Proposed Environmental Planning Instrument

Lot 49 DP 707586

Proposed RU6 Transition

For each of the environmental planning instruments referred to in clause 1, please refer to the attached land use table to determine (b), (c) and (d) listed below:

- b development that may be carried out within the zone without the need for development consent,
- c development which may not be carried out within the zone except with development consent and

d development which is prohibited within the zone

e Development Standards applying to the land

Development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on this land.

The minimum land dimension so fixed is 40ha.

Notwithstanding the above, reference should be made to Clause 4.2B of the Local Environmental Plan, which may contain other provisions enabling or restricting the erection of Dual Occupancies and Dwelling Houses on the land.

Development Standards in Proposed Environmental Planning Instrument

There are no development standards applying to the land that fix minimum land dimensions for the erection of a dwelling-house on the land. However there are minimum lot sizes applying to the subdivision of land, and in some zones the entitlement to erect a dwelling-house, or carry out other types of residential development, is linked to that minimum lot size.

f Critical Habitat

Nil

g Conservation Area

Nil

h Environmental Heritage

Nil

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

Not applicable

3 COMPLYING DEVELOPMENT

Whether or not the land is land on which complying development can be carried out under each of the codes for complying development because of the provisions of clause 1.17A (c) and (d) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*?

1. PART 3 – HOUSING CODE

a Complying Development under the General Housing Code **may** be carried out

on the land.

2. PART 3A – RURAL HOUSING CODE

- a Complying development under the Rural Housing Code **may** be carried out on the land providing the land is not less than the minimum lot size for the erection of a dwelling house under the Wyong Local Environmental Plan 2013.

3. PART 3B – LOW RISE MEDIUM DENSITY HOUSING CODE

- a Complying Development under the Low Rise Medium Density Housing Code **may** be carried out on the land.

4. PART 4 – HOUSING ALTERATIONS CODE

- a Complying development under the Housing Alterations Code **may** be carried out on the land.

5. PART 4A – GENERAL DEVELOPMENT CODE

- a Complying development under the General Development Code **may** be carried out on the land.

6. PART 5 – COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

- a Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

7. PART 5A – COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

- a Complying development under the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land.

8. PART 5B – CONTAINER RECYCLING FACILITIES CODE

- a Complying Development under the Container Recycling Facilities Code **may** be carried out on the land.

9. PART 6 – SUBDIVISIONS CODE

- a Complying development under the Subdivisions Code **may** be carried out on the land.

10. PART 7 – DEMOLITION CODE

- a Complying development under the Demolition code **may** be carried out on the land.

11. PART 8 – FIRE SAFETY CODE

- a Complying development under the Fire Safety Code **may** be carried out on the land.

4, 4A (Repealed)

4B ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works.

5 MINE SUBSIDENCE

The land is within a proclaimed mine subsidence district under the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING OR ROAD ALIGNMENT

(a) DIVISION 2 SECTION 25 OF THE ROADS ACT 1993

The land is not affected by road realignment or road widening under the above.

(b) ENVIRONMENTAL PLANNING INSTRUMENT

The land is not affected by road widening or road re-alignment under the above.

(c) COUNCIL RESOLUTIONS

The land is not affected by road widening or road re-alignment under the above.

However, it should be noted that this parcel either fronts or abuts a road under the control of the Roads and Maritime Services. For further details regarding road widening please refer to that agency.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES TO RESTRICT DEVELOPMENT DUE TO RISK

This land is affected by a policy adopted by the council or other public authority that restricts the development of the land because of the likelihood of risk restrictions. This land is affected because:

The land is classed as being Acid Sulfate Soil Class 4

The land is classed as being Acid Sulfate Soil Class 5

7A FLOOD RELATED DEVELOPMENT CONTROLS

1. Development on this land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or senior housing) is **not** subject to flood related development controls.
2. Development on this land or part of the land for any other purpose is **not** subject to flood related development controls.

A word or expression used in this clause has the same meaning as it has in the *Floodplain Development Manual* (ISBN 0 7347 5476 0), published by the NSW Government in April 2005, unless it is otherwise defined in this Plan.

8 LAND RESERVED FOR ACQUISITION

The following environmental planning instruments and proposed environmental planning instruments make provisions for the acquisition of land by a public authority as referred to in Section 3.15 of the Act:

Nil

9 CONTRIBUTION PLANS

This land is subject to the Section 94 Contributions Plan for Wyong Shire No. 11 - Shirewide Infrastructure, Services and Facilities.

This land is subject to the Wyong Shire Section 94A Levy Development Contributions Plan.

9A BIODIVERSITY CERTIFIED LAND

The land **is not** biodiversity certified land within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*.

10 BIOBANKING AGREEMENTS

Council has not been notified by the Director-General of the Department of Planning and Environment of an agreement issued under Part 7A of the *Threatened Species Conservation Act 1995*.

11 BUSHFIRE PRONE LAND

The information currently available to Council indicates **all** of the land is shown as bush fire prone land according to the Act.

12 PROPERTY VEGETATION PLAN

This land is not subject to a property vegetation plan under the Native Vegetation Act 2003.

NOTE: The advice provided in this section is based on notification by the Local Land Services - Greater Sydney of the approval of a plan. Further information about property vegetation plans should be obtained from that Authority.

13 ORDER UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Council has not been notified of an Order issued under the Trees (Disputes between Neighbours) Act 2006.

NOTE: This advice is based on information provided by the Land and Environment Court.

14 DIRECTIONS UNDER PART 3A

Not Applicable

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

17 SITE COMPATIBILITY CERTIFICATES FOR AFFORDABLE RENTAL HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

18 PAPER SUBDIVISION INFORMATION

- (1) THE NAME OF ANY DEVELOPMENT PLAN ADOPTED BY A RELEVANT AUTHORITY THAT APPLIES TO THIS LAND OR THAT IS PROPOSED TO BE SUBJECT TO A CONSENT BALLOT.

Nil

- (2) THE DATE OF ANY SUBDIVISION ORDER THAT APPLIES TO THIS LAND.

Not applicable

Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19 SITE VERIFICATION CERTIFICATE

Council is not aware of a Site Verification Certificate having been issued by the Director-General of the Department of Planning and Environment in respect to this land.

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land—see Division 3 of Part 4AA of *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*.

20 LOOSE-FILL ASBESTOS INSULATION

This land does not include any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division. That register lists residential premises that contain or have contained loose-fill asbestos insulation.

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS (Building Products Safety Act 2017)

1. Is there any affected building notice of which the council is aware that is in force in respect of the land?

No

- 2.a Is there any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with?

No

- 2.b Is there any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No

22 CONTAMINATED LAND MANAGEMENT ACT 1997

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

- (a) The land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No

- (b) The land to which the certificate relates is subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (c) The land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No

- (d) The land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (e) The land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No

23 ADVICE PROVIDED PURSUANT TO S.10.7(5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

23.1 Prescribed Streams

Approval of the NSW Office of Water is required before the removal of any native vegetation within 20 metres of a prescribed stream. Contact the Office of Water for details.

For any enquiries regarding this Certificate please contact Council's Customer Contact Centre on 4350 5555.

A handwritten signature in black ink, appearing to be 'TE' with a long horizontal stroke above it.

Tim Ennis
Signed on Behalf of Council

LAND USE TABLE

Zone RU6 Transition

Wyong Local Environmental Plan 2013

1 Objectives of zone

- To protect and maintain land that provides a transition between rural and other land uses of varying intensities or environmental sensitivities.
- To minimise conflict between land uses within this zone and land uses within adjoining zones.
- To ensure that interim land uses do not have an adverse impact on the conservation or development potential of land identified for future investigation in the North Wyong Shire Structure Plan or Wyong Settlement Strategy.

2 Permitted without consent

Nil

3 Permitted with consent

Air transport facilities; Animal boarding or training establishments; Bed and breakfast accommodation; Building identification signs; Business identification signs; Community facilities; Dual occupancies; Dwelling houses; Electricity generating works; Emergency services facilities; Environmental facilities; Environmental protection works; Extensive agriculture; Farm buildings; Flood mitigation works; Home-based child care; Home businesses; Home industries; Home occupations; Horticulture; Information and education facilities; Oyster aquaculture; Recreation areas; Recreation facilities (outdoor); Research stations; Roads; Tank-based aquaculture; Waste or resource management facilities; Water recreation structures; Water supply systems

4 Prohibited

Pond-based aquaculture; Any other development not specified in item 2 or 3

DRAFT LAND USE TABLE

Zone RU6 Transition

Draft Central Coast Local Environmental Plan

1 Objectives of zone

- To protect and maintain land that provides a transition between rural and other land uses of varying intensities or environmental sensitivities.
- To minimise conflict between land uses within this zone and land uses within adjoining zones.
- To ensure that interim land uses do not have an adverse impact on the conservation or development potential of land identified for future investigation.

2 Permitted without consent

Nil

3 Permitted with consent

Air transport facilities; Animal boarding or training establishments; Bed and breakfast accommodation; Building identification signs; Business identification signs; Community facilities; Dual occupancies; Dwelling houses; Electricity generating works; Emergency services facilities; Environmental facilities; Environmental protection works; Extensive agriculture; Farm buildings; Flood mitigation works; Home-based child care; Home businesses; Home industries; Home occupations; Horticulture; Information and education facilities; Recreation areas; Recreation facilities (outdoor); Research stations; Roads; Sewage reticulation systems; Vehicle sales or hire premises; Waste or resource management facilities; Water recreation structures; Water recycling facilities; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3



ABN 73 149 644 003
Certificate No:24835
Reference No: 56387:147536

Mr R Lill
1/50 Margaret St
SYDNEY NSW 2000

SECTION 10.7(2) AND (5) PLANNING CERTIFICATE

This Planning Certificate is issued on 22 August 2019 in respect to the land described below, pursuant to s.10.7 of the Environmental Planning and Assessment Act 1979

Fee paid: \$133.00
Receipt No: 13989063
Receipt Date: 22 August 2019

DESCRIPTION OF LAND COUNTY OF NORTHUMBERLAND

Property Address: Doyalson RSL Club, 110 Pacific Highway, DOYALSON
NSW 2262
Property Description: Lot 7 DP 240685
Property Owner: Doyalson Wyee RSL Club Ltd

The information contained within this certificate relates to the land.

1 RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

1.1 Environmental Planning Instruments which apply to the land

Wyong Local Environmental Plan 2013

State Environmental Planning Policy (Primary Production and Rural Development) 2019
State Environmental Planning Policy No 64 – Advertising and Signage
State Environmental Planning Policy No 21 – Caravan Parks
State Environmental Planning Policy No 65 – Design Quality of Residential Flat Development
State Environmental Planning Policy No 44 – Koala Habitat Protection
State Environmental Planning Policy No 36 – Manufactured Home Estates
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes)
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
State Environmental Planning Policy No 50 – Canal Estate Development

State Environmental Planning Policy No 55 – Remediation of Land
State Environmental Planning Policy (State Significant Precincts) 2005
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
State Environmental Planning Policy (Infrastructure) 2007
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
State Environmental Planning Policy (Affordable Rental Housing) 2009
State Environmental Planning Policy (State and Regional Development) 2011

1.2 Proposed Environmental Planning Instruments which will apply to the land and is or has been the subject of community consultation or public exhibition

The land is subject to an amendment to *Wyong Local Environmental Plan 2013*. A Draft Central Coast Local Environmental Plan will replace Gosford Local Environmental Plan 2014, Interim Development Order No. 122 – Gosford, Gosford Planning Scheme Ordinance and Wyong Local Environmental Plan 2013.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
Draft Amendment to State Environmental Planning Policy No 44 – Koala Habitat Protection

1.3 Development Control Plans

Development Control Plan 2013 applies to this land.

2 ZONING AND LAND USE

a Identity of the Zone

Lot 7 DP 240685

RU6 Transition

Identity of the zone in Proposed Environmental Planning Instrument

Lot 7 DP 240685

Proposed RU6 Transition

For each of the environmental planning instruments referred to in clause 1, please refer to the attached land use table to determine (b), (c) and (d) listed below:

- b development that may be carried out within the zone without the need for development consent,
- c development which may not be carried out within the zone except with development consent and

d development which is prohibited within the zone

e Development Standards applying to the land

Development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on this land.

The minimum land dimension so fixed is 40ha.

Notwithstanding the above, reference should be made to Clause 4.2B of the Local Environmental Plan, which may contain other provisions enabling or restricting the erection of Dual Occupancies and Dwelling Houses on the land.

Development Standards in Proposed Environmental Planning Instrument

There are no development standards applying to the land that fix minimum land dimensions for the erection of a dwelling-house on the land. However there are minimum lot sizes applying to the subdivision of land, and in some zones the entitlement to erect a dwelling-house, or carry out other types of residential development, is linked to that minimum lot size.

f Critical Habitat

Nil

g Conservation Area

Nil

h Environmental Heritage

Nil

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

Not applicable

3 COMPLYING DEVELOPMENT

Whether or not the land is land on which complying development can be carried out under each of the codes for complying development because of the provisions of clause 1.17A (c) and (d) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*?

1. PART 3 – HOUSING CODE

a Complying Development under the General Housing Code **may** be carried out

on the land.

2. PART 3A – RURAL HOUSING CODE

- a Complying development under the Rural Housing Code **may** be carried out on the land providing the land is not less than the minimum lot size for the erection of a dwelling house under the Wyong Local Environmental Plan 2013.

3. PART 3B – LOW RISE MEDIUM DENSITY HOUSING CODE

- a Complying Development under the Low Rise Medium Density Housing Code **may** be carried out on the land.

4. PART 4 – HOUSING ALTERATIONS CODE

- a Complying development under the Housing Alterations Code **may** be carried out on the land.

5. PART 4A – GENERAL DEVELOPMENT CODE

- a Complying development under the General Development Code **may** be carried out on the land.

6. PART 5 – COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

- a Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

7. PART 5A – COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

- a Complying development under the Commercial and Industrial (New Buildings and Additions) Code **may** be carried out on the land.

8. PART 5B – CONTAINER RECYCLING FACILITIES CODE

- a Complying Development under the Container Recycling Facilities Code **may** be carried out on the land.

9. PART 6 – SUBDIVISIONS CODE

- a Complying development under the Subdivisions Code **may** be carried out on the land.

10. PART 7 – DEMOLITION CODE

- a Complying development under the Demolition code **may** be carried out on the land.

11. PART 8 – FIRE SAFETY CODE

- a Complying development under the Fire Safety Code **may** be carried out on the land.

4, 4A (Repealed)

4B ANNUAL CHARGES UNDER LOCAL GOVERNMENT ACT 1993 FOR COASTAL PROTECTION SERVICES THAT RELATE TO EXISTING COASTAL PROTECTION WORKS

The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works.

5 MINE SUBSIDENCE

The land is within a proclaimed mine subsidence district under the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING OR ROAD ALIGNMENT

(a) DIVISION 2 SECTION 25 OF THE ROADS ACT 1993

The land is not affected by road realignment or road widening under the above.

(b) ENVIRONMENTAL PLANNING INSTRUMENT

The land is not affected by road widening or road re-alignment under the above.

(c) COUNCIL RESOLUTIONS

The land is not affected by road widening or road re-alignment under the above.

However, it should be noted that this parcel either fronts or abuts a road under the control of the Roads and Maritime Services. For further details regarding road widening please refer to that agency.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES TO RESTRICT DEVELOPMENT DUE TO RISK

This land is affected by a policy adopted by the council or other public authority that restricts the development of the land because of the likelihood of risk restrictions. This land is affected because:

The land is classed as being Acid Sulfate Soil Class 5

7A FLOOD RELATED DEVELOPMENT CONTROLS

1. Development on this land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or senior housing) is **not** subject to flood related development controls.
2. Development on this land or part of the land for any other purpose is **not** subject to flood related development controls.

A word or expression used in this clause has the same meaning as it has in the *Floodplain Development Manual* (ISBN 0 7347 5476 0), published by the NSW Government in April 2005, unless it is otherwise defined in this Plan.

8 LAND RESERVED FOR ACQUISITION

The following environmental planning instruments and proposed environmental planning instruments make provisions for the acquisition of land by a public authority as referred to in Section 3.15 of the Act:

Nil

9 CONTRIBUTION PLANS

This land is subject to the Wyong Shire Section 94A Levy Development Contributions Plan.

This land is subject to the Section 94 Contributions Plan for Wyong Shire No. 11 - Shirewide Infrastructure, Services and Facilities.

9A BIODIVERSITY CERTIFIED LAND

The land **is not** biodiversity certified land within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*.

10 BIOBANKING AGREEMENTS

Council has not been notified by the Director-General of the Department of Planning and Environment of an agreement issued under Part 7A of the *Threatened Species Conservation Act 1995*.

11 BUSHFIRE PRONE LAND

The information currently available to Council indicates **some** of the land is shown as bush fire prone land according to the Act.

12 PROPERTY VEGETATION PLAN

This land is not subject to a property vegetation plan under the Native Vegetation Act 2003.

NOTE: The advice provided in this section is based on notification by the Local Land Services - Greater Sydney of the approval of a plan. Further information about property vegetation plans should be obtained from that Authority.

13 ORDER UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Council has not been notified of an Order issued under the Trees (Disputes between Neighbours) Act 2006.

NOTE: This advice is based on information provided by the Land and Environment Court.

14 DIRECTIONS UNDER PART 3A

Not Applicable

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

17 SITE COMPATIBILITY CERTIFICATES FOR AFFORDABLE RENTAL HOUSING

Council is not aware of there being a valid Site Compatibility Certificate issued by the Director-General of the Department of Planning and Environment in respect of the land.

NOTE: This advice is based on information provided by the NSW Department of Planning and Environment.

18 PAPER SUBDIVISION INFORMATION

- (1) THE NAME OF ANY DEVELOPMENT PLAN ADOPTED BY A RELEVANT AUTHORITY THAT APPLIES TO THIS LAND OR THAT IS PROPOSED TO BE SUBJECT TO A CONSENT BALLOT.

Nil

- (2) THE DATE OF ANY SUBDIVISION ORDER THAT APPLIES TO THIS LAND.

Not applicable

Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

19 SITE VERIFICATION CERTIFICATE

Council is not aware of a Site Verification Certificate having been issued by the Director-General of the Department of Planning and Environment in respect to this land.

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land—see Division 3 of Part 4AA of *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007*.

20 LOOSE-FILL ASBESTOS INSULATION

This land does not include any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989*) that are listed on the register that is required to be maintained under that Division. That register lists residential premises that contain or have contained loose-fill asbestos insulation.

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS (Building Products Safety Act 2017)

1. Is there any affected building notice of which the council is aware that is in force in respect of the land?

No

- 2.a Is there any building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with?

No

- 2.b Is there any notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

No

22 CONTAMINATED LAND MANAGEMENT ACT 1997

Note. The following matters are prescribed by section 59 (2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate:

- (a) The land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No

- (b) The land to which the certificate relates is subject to a management order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (c) The land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No

- (d) The land to which the certificate relates is subject to an ongoing maintenance order within the meaning of that Act - if it is subject to such an order at the date when the certificate is issued,

No

- (e) The land to which the certificate relates is the subject of a site audit statement within the meaning of that Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No

23 ADVICE PROVIDED PURSUANT TO S.10.7(5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

23.1 Prescribed Streams

Approval of the NSW Office of Water is required before the removal of any native vegetation within 20 metres of a prescribed stream. Contact the Office of Water for details.

For any enquiries regarding this Certificate please contact Council's Customer Contact Centre on 4350 5555.

A handwritten signature in black ink, consisting of a long diagonal stroke followed by a series of horizontal and vertical lines forming a stylized 'E'.

Tim Ennis
Signed on Behalf of Council

LAND USE TABLE

Zone RU6 Transition

Wyong Local Environmental Plan 2013

1 Objectives of zone

- To protect and maintain land that provides a transition between rural and other land uses of varying intensities or environmental sensitivities.
- To minimise conflict between land uses within this zone and land uses within adjoining zones.
- To ensure that interim land uses do not have an adverse impact on the conservation or development potential of land identified for future investigation in the North Wyong Shire Structure Plan or Wyong Settlement Strategy.

2 Permitted without consent

Nil

3 Permitted with consent

Air transport facilities; Animal boarding or training establishments; Bed and breakfast accommodation; Building identification signs; Business identification signs; Community facilities; Dual occupancies; Dwelling houses; Electricity generating works; Emergency services facilities; Environmental facilities; Environmental protection works; Extensive agriculture; Farm buildings; Flood mitigation works; Home-based child care; Home businesses; Home industries; Home occupations; Horticulture; Information and education facilities; Oyster aquaculture; Recreation areas; Recreation facilities (outdoor); Research stations; Roads; Tank-based aquaculture; Waste or resource management facilities; Water recreation structures; Water supply systems

4 Prohibited

Pond-based aquaculture; Any other development not specified in item 2 or 3

DRAFT LAND USE TABLE

Zone RU6 Transition

Draft Central Coast Local Environmental Plan

1 Objectives of zone

- To protect and maintain land that provides a transition between rural and other land uses of varying intensities or environmental sensitivities.
- To minimise conflict between land uses within this zone and land uses within adjoining zones.
- To ensure that interim land uses do not have an adverse impact on the conservation or development potential of land identified for future investigation.

2 Permitted without consent

Nil

3 Permitted with consent

Air transport facilities; Animal boarding or training establishments; Bed and breakfast accommodation; Building identification signs; Business identification signs; Community facilities; Dual occupancies; Dwelling houses; Electricity generating works; Emergency services facilities; Environmental facilities; Environmental protection works; Extensive agriculture; Farm buildings; Flood mitigation works; Home-based child care; Home businesses; Home industries; Home occupations; Horticulture; Information and education facilities; Recreation areas; Recreation facilities (outdoor); Research stations; Roads; Sewage reticulation systems; Vehicle sales or hire premises; Waste or resource management facilities; Water recreation structures; Water recycling facilities; Water supply systems

4 Prohibited

Any development not specified in item 2 or 3

Appendix G Borelogs



BH001/MW01

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 9.5

Bore Diameter (mm): 150

Eastings (GDA 94): 362505.660608

Northings (GDA 94): 6325820.96773

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Water Level Initial (mbgs): 7.5

Surface Finish: Roadbox

Casing / Screen Type: Class 18 PVC - 50mm

Casing Bottom Depth (mbgs): 6.5

Screen Bottom Depth (mbgs): 9.5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA						Fill	Fill - Silty SAND - dark brown, damp to wet, loose, poorly sorted with trace inclusions of gravels and asphalt	BH001/MW01 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
				0.40		Fill	Fill - Sandy CLAY - brown, damp to wet, low plasticity, soft with trace inclusions of gravels and asphalt	BH001/MW01 0.2-0.3 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
				0.60		CL	CLAY - greyish brown with orange mottling, heterogeneous, damp, medium plasticity, firm	BH001/MW01 0.4-0.5	No Odour, Staining or Asbestos Observed
				1					
				1.20		SW	SAND - fine, orangish brown which grades to light grey and yellowish brown at 3.4mbgs, homogeneous, damp, dense, well sorted		
				2					
				3					
				4					
				5					
				5.50		SC	Clayey SAND - light grey, homogeneous, damp, dense, well sorted		
			6						
			7						
			7.30		SANDSTONE	Sandstone - light grey, homogeneous, moist, hard			
			8						
			9						
			9.50				Borehole BH001/MW01 terminated at 9.5m		End of Hole at Program Depth
			10						

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BH004/MW03

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 7.5
Bore Diameter (mm): 150

Eastings (GDA 94): 362693.513882
Northings (GDA 94): 6325855.85352
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Water Level Initial (mbgs): 6
Surface Finish: Roadbox
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 4.5
Screen Bottom Depth (mbgs): 7.5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
SFA			0.35	0.35		Fill	Fill - Silty SAND - brown, heterogeneous, damp, medium plasticity, poorly sorted with trace inclusions of glass, asphalt and gravels	BH004/MW03 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
						Fill	Fill - Sandy CLAY - brown, heterogeneous, damp, loose plasticity, firm, with trace inclusions of gravels	BH004/MW03 0.2-0.3 PID = 0 ppm		No Odour, Staining or Asbestos Observed
						CL	CLAY - brown with red and grey mottling, grades to grey with red mottling at 1.2mbgs, heterogeneous, damp, medium plasticity, firm	BH004/MW03 0.4-0.5		No Odour, Staining or Asbestos Observed
									1	
			3.60	3.60		CL-SC	Sandy CLAY - light brown then greyish brown at 4.2mbgs, homogeneous, damp, soft, medium plasticity			
			7.50	7.50			Borehole BH004/MW03 terminated at 7.5m		End of Hole at Program Depth	



BH025/MW04

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 7
Bore Diameter (mm): 150

Eastings (GDA 94): 363118.995939
Northings (GDA 94): 6325819.4548
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Water Level Initial (mbgs): 5.5
Surface Finish: Standpipe
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 4
Screen Bottom Depth (mbgs): 7

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				0.40		Fill	Fill - Sandy SILT - dark brown, homogeneous, moist, low plasticity, soft with trace inclusions of rootlets	BH025/MW04 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				0.65		Fill	Fill - Sandy CLAY - dark grey, homogeneous, moist, low plasticity, very soft	BH025/MW04 0.2-0.3 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
						CH-SC	Sandy CLAY - grey with yellow mottling which grades to grey at 2.1mbgs, moist, homogeneous, medium plasticity, soft	BH025/MW04 0.4-0.5	No Odour, Staining or Asbestos Observed
								BH025/MW04 0.9-1.0	No Odour, Staining or Asbestos Observed
				2.60		CL	CLAY - light grey, homogeneous, damp, high plasticity, firm		
				5.10		CL-SC	Sandy CLAY - orange, homogeneous, moist, medium plasticity, soft	BH025/MW04 5.5-5.6	No Odour, Staining or Asbestos Observed
				7.00			Borehole BH025/MW04 terminated at 7m		End of Hole at Program Depth



BH038/MW05

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M.Swinfield
Contractor: Terra Test
Total Hole Depth (mbgs): 7.5
Bore Diameter (mm): 150

Eastings (GDA 94): 362639.623441
Northings (GDA 94): 6326003.87761
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Water Level Initial (mbgs): 5.5
Surface Finish: Roadbox
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 4.5
Screen Bottom Depth (mbgs): 7.5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				0.20		Fill	Gravelly Silty SAND, brown, heterogeneous, damp, loose, poorly sorted, with trace inclusions of asphalt	BH038/MW05 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
						Fill	Silty SAND, brown, heterogeneous, damp, medium density, poorly sorted, damp, with trace inclusions of gravels	BH038/MW05 0.2-0.3 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				0.70		SC	Clayey SAND, orangey yellow, homogeneous, damp, medium density, well sorted	BH038/MW05 0.4-0.5	No Odour, Staining or Asbestos Observed
				1					
				2					
				2.10			CH-SC	Sandy CLAY, orange with grey mottling, heterogeneous, damp, low plasticity, firm	BH038/MW05 0.9-1.0
			3						
			4			CL	CLAY, reddish grey, homogeneous, damp, medium plasticity, firm		
			5			CH-SC	Sandy CLAY, grey, homogeneous, damp, low plasticity soft		
			6			CL	CLAY, yellowish brown with white mottling, heterogeneous, moist medium plasticity		
			7						
			7.50				Borehole BH038/MW05 terminated at 7.5m		End of Hole at Program Depth
			8						
			9						
			10						



BH070/MW08

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M.Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 6.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363196.307649
Northings (GDA 94): 6325973.49807
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Water Level Initial (mbgs): 4.5
Surface Finish: Standpipe
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 3.5
Screen Bottom Depth (mbgs): 6.5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				0.35		ML-SM	Sandy SILT, dark brown, heterogeneous, damp, low plasticity, soft, with trace inclusions of rootlets and gravels	BH070/MW08 0.0-0.1	No Odour, Staining or Asbestos Observed No Odour, Staining or Asbestos Observed No Odour, Staining or Asbestos Observed
						CH-SC	Sandy CLAY, dark grey, homogeneous, wet, low plasticity, very soft	BH070/MW08 0.2-0.3	
				1.50		CL	CLAY, red with grey mottling, heterogeneous, damp, medium plasticity, firm	BH070/MW08 0.4-0.5	
				3.50		CH-SC	Sandy CLAY, reddish grey, homogeneous, damp, low plasticity, soft		
				4.50		CH-SC	Sandy CLAY, light brown, homogeneous, saturated, low plasticity, very soft		
			6.50			Borehole BH070/MW08 terminated at 6.5m		End of Hole at Program Depth	



BH115/MW06

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M.Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 6
Bore Diameter (mm): 150

Eastings (GDA 94): 363262.155755
Northings (GDA 94): 6326306.71677
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Water Level Initial (mbgs): 4
Surface Finish: Standpipe
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 3
Screen Bottom Depth (mbgs): 6

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				0.20		Fill	Sandy SILT, dark brown, heterogeneous, moist, low plasticity, soft, with trace inclusions of gravels	BH115/MW06 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
						Fill	Sandy CLAY, brown, homogeneous, moist, low plasticity, soft	BH115/MW06 0.2-0.3 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
								BH115/MW06 0.4-0.5	No Odour, Staining or Asbestos Observed
				0.70		CH-SC	Sandy CLAY, orangey brown, homogeneous, moist, non plastic, soft		
								BH115/MW06 0.9-1.0	No Odour, Staining or Asbestos Observed
				1.70		CL	CLAY, light grey with red mottling, heterogeneous, damp, firm, medium plasticity		
				2.80		CH-SC	Sandy CLAY, light brown, homogeneous, damp, low plasticity, very soft		
				3.50		SC	Clayey SAND, light brown, homogeneous, damp, well sorted, medium density		
				4.50		CL	Sandy CLAY, light brown, homogeneous, saturated, low plasticity, very soft	BH115/MW06 4.8-4.9	No Odour, Staining or Asbestos Observed
				6.00			Borehole BH115/MW06 terminated at 6m		End of Hole at Program Depth



BH135/MW07

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
 Logged By: M.Swinfield
 Contractor: Terratest
 Total Hole Depth (mbgs): 9.5
 Bore Diameter (mm): 150

Eastings (GDA 94): 363262.155755
 Northings (GDA 94): 6326306.71677
 Zone/Area/Permit#:
 Reference Level: Ground Surface
 Elevation (m):

Water Level Initial (mbgs): 7.5
 Surface Finish: Standpipe
 Casing / Screen Type: Class 18 PVC - 50mm
 Casing Bottom Depth (mbgs): 6.5
 Screen Bottom Depth (mbgs): 9.5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				0.20		SM	Silty SAND, greyish brown, homogeneous, damp, loose, well sorted with trace inclusions of rootlets	BH135/MW07 0.0-0.1	No Odour, Staining or Asbestos Observed
				0.40		SC	Clayey SAND, light brown, homogeneous, damp, medium density, poorly sorted, with trace inclusions of gravels	BH135/MW07 0.2-0.3	No Odour, Staining or Asbestos Observed
						CH-SC	Sandy CLAY, brown with red mottling, heterogeneous, damp, low plasticity, firm	BH135/MW07 0.4-0.5	No Odour, Staining or Asbestos Observed
			1						
			1.20			SC	Clayey SAND, brownish red, homogeneous, medium density, damp, well sorted		
			2						
			3						
			4						
			4.50			CL	CLAY, red with light grey mottling, heterogeneous, medium plasticity, firm		
			5						
		6							
		7							
		7.20			CL	CLAY, light brown, homogeneous, wet, medium plasticity, soft, moist			
		8							
		9							
		9.50					Borehole BH135/MW07 terminated at 9.5m		End of Hole at Program Depth
		10							

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BH003

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 150

Eastings (GDA 94): 362627.897084
Northings (GDA 94): 6325796.58673
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Silty SAND - brown, heterogeneous, damp, loose, poorly sorted, with trace inclusions of rootlets and gravels	BH003 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - SAND - greyish brown, homogeneous, damp, loose, well sorted	BH003 0.2-0.3 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
	0.80			CH-SC	Sandy CLAY - greyish brown with red mottling, heterogeneous, damp, low plasticity	BH003 0.4-0.5	No Odour, Staining or Asbestos Observed
	1						
	1.20				Borehole BH003 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH005

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 150

Eastings (GDA 94): 362748.053456
Northings (GDA 94): 6325858.36402
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Silty SAND - brown, heterogeneous, damp, loose, poorly sorted, with trace inclusions of rootlets and gravels	BH005 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.35		SC	Clayey SAND - light brown, homogeneous, damp, medium density, well sorted	BH005 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.80		CL	CLAY - orange with grey mottling, heterogeneous, damp medium plasticity, firm	BH005 0.4-0.5	No Odour, Staining or Asbestos Observed
	1	1.20				Borehole BH005 terminated at 1.2m	
	2						
	3						
	4						
	5						
	6						



TP006

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 3.3

Pit Dimension (m3): 450

Eastings (GDA 94): 362792.835292

Northings (GDA 94): 6325832.84946

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5	0.50		Fill	Fill - SAND - dark brown and grey, medium grained, homogeneous with trace inclusions of gravels and rootlets	TP006 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Sandy Gravelly CLAY - dark brown with white and black mottling, moist, heterogeneous, some inclusions of woody fragments, sandstone and igneous gravels	TP006 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		1.50		SW	SAND - dark, grey, medium grained, moist to wet, homogeneous	TP006 0.9-1.0	No Odour, Staining or Asbestos Observed
				SW	SAND - dark, grey, medium grained, moist to wet, homogeneous	TP006 1.4-1.5	No Odour, Staining or Asbestos Observed
				SW	SAND - dark, grey, medium grained, moist to wet, homogeneous	TP006 1.9-2.0	No Odour, Staining or Asbestos Observed
		3.00		CL-SC	Sandy CLAY - reddish white with black mottling, medium plasticity, medium density, homogeneous	TP006 2.4-2.5	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - reddish white with black mottling, medium plasticity, medium density, homogeneous	TP006 2.9-3.0	No Odour, Staining or Asbestos Observed
3.30				Test Pit TP006 terminated at 3.3m	TP006 3.2-3.3	No Odour, Staining or Asbestos Observed End of Hole at Program Depth	

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP007

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 3.9

Pit Dimension (m3): 450

Eastings (GDA 94): 362831.447921

Northings (GDA 94): 6325832.33404

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - Clayey SAND - dark brown, fine grained, moist, heterogeneous with trace inclusions of rootlets	TP007 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.20			Fill	Fill - Clayey SAND - light brown with black mottling, heterogeneous, with trace inclusions of organics and igenous gravels	TP007 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
	0.5							
	1.0							
	1.0						TP007 0.9-1.0 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1.5	1.40		Fill	Fill - Sandy CLAY - dark brownish grey, medium grained, moist with trace inclusions of wood fragments, rootlets, igenous gravels and concrete	TP007 1.4-1.5	No Odour, Staining or Asbestos Observed	
	2.0						TP007 1.9-2.0	No Odour, Staining or Asbestos Observed
	2.5						TP007 2.4-2.5	No Odour, Staining or Asbestos Observed
	3.0						TP007 2.9-3.0	No Odour, Staining or Asbestos Observed
	3.20			SC	Clayey SAND - dark greym homogenous, wet, highly plastic, well sorted		TP007 3.4-3.5	No Odour, Staining or Asbestos Observed
3.5	3.50	CL-SC	Sandy CLAY - reddish white with orange mottling, medium plasticity, medium density, moist		TP007 3.8-3.9	No Odour, Staining or Asbestos Observed		
4.0	3.90			Test Pit TP007 terminated at 3.9m		No Odour, Staining or Asbestos Observed End of Hole at Program Depth		
4.5								

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT - 2/9/19



TP008

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 4.3
Pit Dimension (m3): 450

Eastings (GDA 94): 362872.069248
Northings (GDA 94): 6325820.14687
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND dark grey with white speckles, loose, damp, heterogeneous	TP008 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.30			Fill	Fill - Gravelly SAND - pale grey to yellow, fine to medium grained, heterogenous with inclusions of sandstone gravels	TP008 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	1.0			Fill	Fill - Sandy Gravelly CLAY - dark grey with white mottling, medium grained sand to boulder sized clasts, damp and then wet to saturated at depth, dense, medium plasticity with anthropogenic inclusions of brick, plastics, concrete, machinery, piping and bonded building fragments	TP008 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	1.5					TP008 1.4-1.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	2.0					TP008 1.9-2.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	2.5					T008 2.4-2.5 PID = 0.3 ppm	Strong Hydrocarbon Odour. No Staining or Asbestos Observed
	3.0					TP008 2.9-3.0 PID = 0.2 ppm	Strong Hydrocarbon Odour. No Staining or Asbestos Observed
	3.5					TP008 3.4-3.5 PID = 0.3 ppm	Suspected ACM Encountered at Interval. Strong Hydrocarbon Odour, No Staining Observed
	4.30				TP008 3.9-4.0 PID = 5.4 ppm	Strong Hydrocarbon Odour. No Staining or Asbestos Observed	
	4.5					End of hole. Depth limit of excavator reached.	
					Test Pit TP008 terminated at 4.3m		

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT - 2/9/19



TP009

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 4.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362917.569785
Northings (GDA 94): 6325814.20153
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - Clayey SAND - dark brown, damp, heterogeneous	TP009 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed	
		0.30		Fill	Fill - Clayey SAND - greyish brown, medium density, medium plasticity, damp, heterogeneous with trace inclusions of ironstone gravels	TP009 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
		0.60		Fill	Fill - Sandy CLAY - light orange to brown, dense, medium plasticity			
		1.00		Fill	Fill - Sandy CLAY - dark grey with orange and black mottling, moist which increases to wet with depth, medium plasticity, dense with trace inclusions of brick and wood	TP009 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
		2.00					TP009 1.9-2.0 PID = 0.1 ppm	Water entering test pit at ~1.5mbgs. No Odour, Staining or Asbestos Observed
		3.00					TP009 2.9-3.0	No Odour, Staining or Asbestos Observed
		3.50			SW	SAND - dark grey, loose, homogeneous, coarse grained, damp		
		4.00			CL	CLAY - Red, white, pale grey, medium grained with minor inclusions of ironstone gravels	TP009 3.9-4.0	No Odour, Staining or Asbestos Observed
	4.50				TP009 4.4-4.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth		
	4.60				Test Pit TP009 terminated at 4.6m			

TEST PIT JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP010

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 3.3

Pit Dimension (m3): 450

Eastings (GDA 94): 362956.18071

Northings (GDA 94): 6325794.07388

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Gravelly CLAY - dark brown, loose, damp with inclusions of fine igneous gravels	TP010 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		Fill	Fill - Sandy CLAY - orangey brown, medium density, pockets of loose pale cream sand with inclusions of rootlets and gravels	TP010 0.4-0.5 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	1.0					TP010 0.9-1.0 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1.5	1.20		Fill	Fill - Sandy CLAY - orangey brown, medium density with inclusions of woody fragments, corrugated iron and Astroturf. PVC piping encountered at ~1.5mbgs	TP010 1.4-1.5	No Odour, Staining or Asbestos Observed
	2.5					TP010 2.4-2.5	No Odour, Staining or Asbestos Observed
	3.0	2.80		CL-GC	Gravelly CLAY - red and white with orange mottling, dense, medium plasticity with trace inclusions of gravels	TP010 2.9-3.0	No Odour, Staining or Asbestos Observed
	3.30				Test Pit TP010 terminated at 3.3m	End of Hole at Program Depth	

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP011

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2
Pit Dimension (m3): 450

Eastings (GDA 94): 363005.687151
Northings (GDA 94): 6325785.7321
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5 1.0 1.5 2.0	0.60 0.90 1.50		Fill	Fill - Sandy CLAY - orange to light brown, dense, damp medium plastic, inclusions of organics and rootlets	TP011 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Sandy CLAY - dark grey to black, heterogeneous, medium density, medium plasticity with trace inclusions of timber and roots	TP011 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				SW	SAND - yellowish brown, medium grained, moist to wet, loose, homogeneous	TP011 0.9-1.0	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - red and white to pale grey, medium grained, medium density and plasticity, heterogeneous with minor inclusions of gravels	TP011 1.4-1.5	No Odour, Staining or Asbestos Observed
					Test Pit TP011 terminated at 2m	TP011 1.9-2.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth



TP012

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.3
Pit Dimension (m3): 450

Eastings (GDA 94): 362823.811802
Northings (GDA 94): 6325993.70766
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5 1.0	0.60		Fill	Fill - Sandy CLAY - dark grey, moist to wet, heterogeneous with trace inclusions of roots and rootlets	TP012 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - red and white to pale grey with iron staining, medium density and plasticity, heterogeneous	TP012 0.4-0.5	No Odour, Staining or Asbestos Observed
						TP012 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.30				Test Pit TP012 terminated at 1.3m		End of Hole at Program Depth



BH013

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 100

Eastings (GDA 94): 363124.000778
Northings (GDA 94): 6325777.52256
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				Fill	Fill - Silty CLAY - brown, non plastic, inclusions of rootlets, firm, heterogeneous	BH013 0.0-0.1 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
		0.15		CL-SC	Sandy CLAY - orange, medium plasticity, stiff, homogeneous	BH013 0.3-0.4	No Odour, Staining or Asbestos Observed
		0.50			Borehole BH013 terminated at 0.5m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH014

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 1.2

Bore Diameter (mm): 50

Eastings (GDA 94): 362592.659805

Northings (GDA 94): 6325914.24982

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT	0.10	0.10		Fill SG	Fill - Gravelly Silty SAND - greyish brown, damp to wet, medium density, poorly sorted with inclusions of trace asphalt	BH014 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
					SAND - light brown, damp to wet, medium density, poorly sorted	BH014 0.2-0.3	No Odour, Staining or Asbestos Observed
						BH014 0.4-0.5	No Odour, Staining or Asbestos Observed
	1	0.80	0.80	CL-SC	Sandy CLAY - orangish brown, damp to wet, loose plasticity, firm	BH014 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.20	1.20			Borehole BH014 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH015

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 1.2

Bore Diameter (mm): 50

Eastings (GDA 94): 362664.07099

Northings (GDA 94): 6325928.921

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Gravelly Silty SAND - greyish brown, damp to wet, poorly sorted, medium density with trace inclusions of asphalt	BH015 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Silty SAND - light brown, homogeneous, damp, medium density, well sorted	BH015 0.2-0.3 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.35			SC	Clayey SAND - yellowish brown, homogeneous, medium density, well sorted	BH015 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.80			CH-SC	Sandy CLAY - brown with yellowish grey and orange mottling, heterogeneous, firm, damp, low plasticity		
	1.20				Borehole BH015 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH016

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 50

Eastings (GDA 94): 362686.634702
Northings (GDA 94): 6325897.65777
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Silty SAND - brown, homogeneous, damp, loose, well sorted	BH016 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.25			Fill	Fill - Sandy CLAY - orangish brown, heterogeneous, damp, low plasticity, with trace inclusions of asphalt	BH016 0.2-0.3 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.40			SC	Clayey SAND - brown grading to grey at 0.9mbgs, heterogeneous, damp, medium plasticity, well sorted	BH016 0.4-0.5	No Odour, Staining or Asbestos Observed
	1						
	1.20				Borehole BH016 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH017

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1
Bore Diameter (mm): 150

Eastings (GDA 94): 362737.657554
Northings (GDA 94): 6325893.02329
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA		0.20		Fill	Fill - Silty SAND - brown, homogeneous, damp, medium density, well sorted with trace inclusions of rootlets	BH017 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				CH-SC	Sandy CLAY - brown with red and yellow mottling, heterogeneous, damp, low plasticity, firm	BH017 0.4-0.5	No Odour, Staining or Asbestos Observed
	1	1.00			Borehole BH017 terminated at 1m	BH017 0.9-1.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



TP018

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362793.627969
Northings (GDA 94): 6325871.57476
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - SAND -dark greyish brown, fine grained, loose, damp, heterogeneous	TP018 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
		0.20		Fill	Fill - Clayey SAND - orangey grey, medium grained, high plasticity, heterogeneous medium density			
		0.5		SC	Clayey SAND - orange and grey, medium grained, homogeneous, loose	TP018 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
		0.50						
		1.0				TP018 0.9-1.0	No Odour, Staining or Asbestos Observed	
		1.5		1.40	SC	Clayey SAND - orange and white mottling, medium grained, heterogeneous with trace inclusions of sandstone gravels	TP018 1.4-1.5	No Odour, Staining or Asbestos Observed
		2.0		1.80	CL-SC	Sandy CLAY - reddish white to pale grey, medium grained, dense, medium plasticity, iron staining, heterogeneous		
	2.20			Test Pit TP018 terminated at 2.2m	TP018 2.1-2.2	No Odour, Staining or Asbestos Observed End of Hole at Program Depth		



TP019

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 3.3

Pit Dimension (m3): 450

Eastings (GDA 94): 362845.910942

Northings (GDA 94): 6325833.30409

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - SAND - dark brownish grey, fine grained, heterogeneous, moist with trace inclusions of rootlets	TP019 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
		0.15		Fill	Fill - Gravelly SAND - grey and yellowish brown, coarse, well graded, dry, loose with some inclusions of slag and ash	TP019 0.2-0.3 PID = 0.1 ppm	Minor Odour of Tar. No Staining or Asbestos Observed	
		0.30		Fill	Fill - Clayey SAND - medium brown to orange, medium plasticity, dense, moist with trace inclusions of igneous gravels, rootlets and woody fragments	TP019 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
		0.5						
		1.0					TP019 0.9-1.0 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		1.00			Fill	Fill - Sandy CLAY - sand decreasing with depth, dark grey brown, loose to medium density, moist to wet increasing with depth at 2.0mbgs with trace inclusions of wood		
		1.5					TP019 1.4-1.5	No Odour, Staining or Asbestos Observed
		2.0					TP019 1.9-2.0	No Odour, Staining or Asbestos Observed
		2.5					TP019 2.4-2.5	No Odour, Staining or Asbestos Observed
		2.80			CL-SC	Sandy CLAY - reddish white, dense, low plasticity, iron stained with trace inclusions of gravels	TP019 2.9-3.0	No Odour, Staining or Asbestos Observed
	3.0							
	3.30				Test Pit TP019 terminated at 3.3m	End of Hole at Program Depth		
	3.5							
	4.0							
	4.5							

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP020

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 3.5

Pit Dimension (m3): 450

Eastings (GDA 94): 362887.165518

Northings (GDA 94): 6325828.57858

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - SAND - dark brown, moist with trace inclusions of rootlets	TP020 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
	0.20			Fill	Fill - Sandy CLAY - orange and grey mottling, dense, low plasticity, heterogeneous with minor inclusions of gravels	TP020 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.5							
	0.80			Fill	Fill - Clayey SAND - dark grey, medium grained, homogeneous	TP020 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	1.0							
	1.5			Fill	Fill - Sandy CLAY - dark brownish grey, highly plastic, moist to wet, heterogeneous, some trace inclusions of branches and wood fragments and presence of a metal pipe associated with redundant service	TP020 1.4-1.5 PID = 0 ppm	No Odour, Staining or Asbestos Observed	
	2.0							
	2.5							
	3.10			CL-GC	Gravelly CLAY - reddish grey, medium density and plasticity, minors inclusions of sandy and iron gravels	TP020 2.4-2.5	No Odour, Staining or Asbestos Observed	
	3.5					TP020 2.9-3.0	No Odour, Staining or Asbestos Observed	
	3.50				Test Pit TP020 terminated at 3.5m	TP020 3.4-3.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth	
	4.0							
	4.5							

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT - 2/19/19



TP021

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 2.4

Pit Dimension (m3): 450

Eastings (GDA 94): 362973.685157

Northings (GDA 94): 6325872.7948

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - SAND - dark brown, moist, loose, heterogeneous with trace inclusions of rootlets	TP021 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed	
		0.20		Fill	Fill - SAND - grey, medium grained, loose, well sorted, homogeneous, damp			
		0.50		Fill	Fill - Sandy CLAY - light to dark brown, medium density and plasticity, damp with inclusions of wood and rootlets	TP021 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
		1.00				TP021 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
		2.00		2.00	SC	Clayey SAND - reddish orange with white mottling, medium grained, dense, heterogenous	TP021 1.9-2.0	No Odour, Staining or Asbestos Observed
		2.50		2.40		Test Pit TP021 terminated at 2.4m	TP021 2.3-2.4	No Odour, Staining or Asbestos Observed End of Hole at Program Depth



BH022

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 3.6

Bore Diameter (mm): 50

Eastings (GDA 94): 362985.929587

Northings (GDA 94): 6325829.89879

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Silty SAND - brown, homogeneous, damp, loose, well sorted, with trace inclusions of rootlets	BH022 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - Clayey SAND - greyish brown, damp to wet, medium density, poorly sorted with trace inclusions of gravels, wood and clay clasts	BH022 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.70			Fill	Fill - Sandy CLAY - greyish brown, damp to wet, medium density, firm with trace inclusions of wood, gravels and concrete	BH022 0.9-1.0 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
	1					BH022 1.4-1.5	No Odour, Staining or Asbestos Observed
	2					BH022 2.4-2.5	No Odour, Staining or Asbestos Observed
	3					BH022 2.9-3.0	No Odour, Staining or Asbestos Observed
	3.10			SC	Clayey SAND - brownish grey, homogeneous, damp, medium density, well sorted	BH022 3.4-3.5	No Odour, Staining or Asbestos Observed
	3.60			Borehole BH022 terminated at 3.6m		End of Hole at Program Depth	
	4						
	5						
	6						



TP023

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 4.1
Pit Dimension (m3): 50

Eastings (GDA 94): 363041.488026
Northings (GDA 94): 6325814.81623
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit		0.10		Fill	Fill - SAND - dark grey, loose, damp, heterogeneous	TP023 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - yellow, medium grained, well sorted, damp, loose		
		0.40		Fill	Fill - Sandy Gravelly CLAY - dark grey with red mottling, medium density and plasticity, damp, heterogeneous, some inclusions of plastics, plastic piping, concrete, organics, igneous and sandstone gravels	TP023 0.3-0.4 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		1.0				TP023 0.9-1.0 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		2.0				TP023 1.9-2.0	No Odour, Staining or Asbestos Observed
	3.0				TP023 2.9-3.0	No Odour, Staining or Asbestos Observed	
	4.0				TP023 3.9-4.0	No Odour, Staining or Asbestos Observed	
	4.10				Test Pit TP023 terminated at 4.1m		End of hole. Depth limit of excavator reached.
	4.5						

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP024

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 4.2
Pit Dimension (m3): 450

Eastings (GDA 94): 363086.785351
Northings (GDA 94): 6325822.26981
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - SAND - dark brown to yellow with depth, medium grained, damp, heterogeneous with trace inclusions of rootlets	TP024 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.15		Fill	Fill - Sandy Gravelly CLAY - dark grey to black, medium density, highly plastic, heterogeneous with some inclusions of rootlets, tree stumps, anthropogenic metals and timber, concrete, asphalt and igneous gravels	TP024 0.1-0.2 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.5				TP024 0.4-0.5 PID = 0.2 ppm	Mild Odour of Decaying Organics. No Staining or Asbestos Observed
		1.0					
		1.5				TP024 1.4-1.5 PID = 0.2 ppm	Mild Odour of Decaying Organics. No staining or Asbestos Observed
		2.0					
	2.5					TP024 2.4-2.5	Mild Odour of Decaying Organics. No staining or Asbestos Observed
	3.0						
	3.5					TP024 3.4-3.5	Mild Odour of Decaying Organics. No staining or Asbestos Observed
	4.0						
	4.2				Test Pit TP024 terminated at 4.2m	TP024 4.1-4.2	Mild Odour of Decaying Organics. No staining or Asbestos Observed End of hole. Depth limit of excavator reached.
	4.5						

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



BH026

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 1.2

Bore Diameter (mm): 150

Eastings (GDA 94): 362595.305644

Northings (GDA 94): 6325946.66134

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				Fill	Fill - Gravelly Silty SAND - brown, damp to wet, medium density, poorly sorted with trace inclusions of gravels	BH026 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.20		Fill	Fill - Silty SAND - light brown, heterogeneous, damp to wet, loose, poorly sorted, trace inclusions of gravels	BH026 0.2-0.3 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.40		SW	SAND - light brown, homogeneous, damp, loose, well sorted	BH026 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.70		CL-SC	Sandy CLAY - orangey brown, damp to wet, loose plasticity, firm with trace inclusions of gravels		
	1						
	1.20				Borehole BH026 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH027

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 50

Eastings (GDA 94): 362660.684316
Northings (GDA 94): 6325953.26271
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Gravelly Silty SAND - brownish grey, damp to wet, medium density, poorly sorted	BH027 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - Clayey SAND - light brown, damp to wet, medium density, poorly sorted with trace inclusions of gravels	BH027 0.2-0.3 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.50			SC	Clayey SAND - orangish brown, homogeneous, damp, well sorted, medium density	BH027 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.80			CL	CLAY - grey with red and yellow mottling, homogeneous, damp, firm, medium plasticity	BH027 0.9-1.0	No Odour, Staining or Asbestos Observed
	1						
	1.20				Borehole BH027 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



TP028

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362705.14309
Northings (GDA 94): 6325944.33604
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - SAND - dark brownish grey, fine, loose, damp, heterogeneous	TP028 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.30		SG-GC	Gravelly Clayey SAND - dark grey, loose, medium grained with inclusions of sandstone gravels	TP028 0.4-0.5	No Odour, Staining or Asbestos Observed
		1.0				TP028 0.9-1.0	No Odour, Staining or Asbestos Observed
		1.60		SC	Clayey SAND - orangey red with white mottling, loose, medium grained with trace inclusions of sandstone and igneous gravels	TP028 1.9-2.0	No Odour, Staining or Asbestos Observed
		2.10			Test Pit TP028 terminated at 2.1m		



BH029

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1
Bore Diameter (mm): 150

Eastings (GDA 94): 362754.023101
Northings (GDA 94): 6325934.20129
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				Fill	Fill - Silty SAND - brown, homogeneous, damp, medium density, well sorted with trace inclusions of rootlets	BH029 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - brown with red and yellow mottling, damp, low plasticity, firm	BH029 0.4-0.5	No Odour, Staining or Asbestos Observed
		1				BH029 0.9-1.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
		1.00			Borehole BH029 terminated at 1m		
	2						
	3						
	4						
	5						
	6						



BH030

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 1.5

Bore Diameter (mm): 150

Eastings (GDA 94): 362796.421131

Northings (GDA 94): 6325927.35363

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				Fill	Fill - Silty SAND - brown, homogeneous, damp, medium density, well sorted with trace inclusions of rootlets	BH030 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - Sandy CLAY - orangey brown, damp to wet, low plasticity, firm with trace inclusions of gravels		
	0.70			Fill	Fill - Clayey SAND - light brown, homogeneous, damp, medium density, well sorted	BH030 0.4-0.8 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	1					BH030 0.9-1.0 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	1.30			SW	SAND - light brown with yellow mottling, homogeneous, damp, loose, well sorted		
	1.50				Borehole BH030 terminated at 1.5m	BH030 1.4-1.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH031

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.5
Bore Diameter (mm): 150

Eastings (GDA 94): 362853.461098
Northings (GDA 94): 6325910.48617
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
SFA				Fill	Fill - Silty SAND - brown, heterogeneous, damp, medium density, well sorted with trace inclusions of rootlets	BH031 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.30		Fill	Fill - Sandy CLAY - brown, heterogeneous, damp, low plasticity, firm with trace inclusions of gravels	BH031 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1	0.90		CL-SC	Sandy CLAY - orangey brown, homogeneous, damp		
		1.50			Borehole BH031 terminated at 1.5m	BH031 1.4-1.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH032

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Terratest
Total Hole Depth (mbgs): 2.1
Bore Diameter (mm): 50

Eastings (GDA 94): 362897.861028
Northings (GDA 94): 6325900.03787
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - SAND - medium brown, fine grained, damp with trace inclusions of rootlets	BH032 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.25			Fill	Fill - Clayey SAND - orangey brown with grey mottling, medium grained, medium density and plasticity with some inclusions of rootlets, igneous and sandstone gravels	BH032 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	1					BH032 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.50			CL-GC	Gravelly CLAY - reddish white, medium plastic, dense with inclusions of ironstone and igneous gravels	BH032 1.4-1.5	No Odour, Staining or Asbestos Observed
	2					BH032 1.9-2.0	No Odour, Staining or Asbestos Observed
	2.10				Borehole BH032 terminated at 2.1m		End of Hole at Program Depth
	3						
	4						
	5						
	6						



TP033

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 3.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362954.855312
Northings (GDA 94): 6325904.74925
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - Sandy CLAY - dark brown, moist, heterogeneous with trace inclusions of rootlets	TP033 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.20			Fill	Fill - Sandy CLAY - yellowish brown, medium plasticity, dense, heterogeneous, trace inclusions of wood, igneous gravels and rootlets	TP033 0.4-0.5 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed	
	0.5							
	1.0						TP033 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.5						TP033 1.4-1.5	No Odour, Staining or Asbestos Observed
	2.0						TP033 1.9-2.0	No Odour, Staining or Asbestos Observed
	2.5						TP033 2.4-2.5	No Odour, Staining or Asbestos Observed
	2.80			SC	Clayey SAND - pale grey with red mottling, medium to coarse grained, heterogeneous, high plasticity	TP033 2.9-3.0	No Odour, Staining or Asbestos Observed	
	3.0							
	3.20				Test Pit TP033 terminated at 3.2m		End of Hole at Program Depth	
	3.5							
	4.0							
	4.5							

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



BH034

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 3.6

Bore Diameter (mm): 50

Eastings (GDA 94): 363021.95883

Northings (GDA 94): 6325891.5084

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Silty SAND - brown, heterogeneous, damp, loose, well sorted, with trace inclusions of rootlets	BH034 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.20		Fill	Fill - Sandy CLAY - brown, heterogeneous, damp, low plasticity, firm with trace inclusions of gravels and bricks	BH034 0.4-0.5 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	1	0.80		Fill	Fill - Silty SAND - greyish brown, heterogeneous, moist, medium plasticity, poorly sorted with trace inclusions of wood and gravels	BH034 0.9-1.0 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		1.30		Fill	Fill - Sandy CLAY - grey and brown, heterogeneous, damp, low plasticity, firm with trace inclusions of gravels	BH034 1.4-1.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	2	2.10		Fill	Fill - Clayey SAND - grey, heterogeneous, wet, medium density, poorly sorted with trace inclusions of gravels	BH034 2.4-2.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	3	3.20		CH	CLAY - grey with orange and yellow mottling, homogeneous, damp, firm, medium plasticity	BH034 3.4-3.5	No Odour, Staining or Asbestos Observed
	3.60				Borehole BH034 terminated at 3.6m		End of Hole at Program Depth
	4						
	5						
	6						



TP035

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 4.3
Pit Dimension (m3): 450

Eastings (GDA 94): 363064.630829
Northings (GDA 94): 6325900.21091
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - SAND - yellow to dark brown, medium grained, well sorted, heterogeneous, damp with inclusions of rootlets	TP035 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
		0.30		Fill	Fill - Clayey SAND - light yellowish orange, medium densitu, heterogeneous with trace inclusions of organic matter and gravels	TP035 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
		0.60		Fill	Fill - Sandy Gravelly CLAY - dark brownish grey, dense, medium plastic, heterogeneous, some inclusions of tyres, saw blades (1.5mbgs), metals, plastic matting, timber and bonded building material fragments	TP035 0.9-1.0 PID = 0.2 ppm	Slight Odour of Organic Decay. No Staining or Asbestos Observed	
		1.0						
		1.5						
		2.0					TP035 1.9-2.0	Potential ACM Encounted at Interval. Slight Odour of Organic Decay. No Staining Observed
		2.5						
	3.0							
	3.5							
	4.0	4.00		CH-SC	Sandy CLAY - grey and red with white mottling, iron staining, medium density and plasticity with some inclusions of ironstone gravels	TP035 3.9-4.0	Slight Odour of Organic Decay. Staining or Asbestos Observed	
	4.30					TP035 4.2-4.3	Slight Odour of Organic Decay. Staining or Asbestos Observed	
	4.5				Test Pit TP035 terminated at 4.3m		End of hole. Depth limit of excavator reached.	

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP036

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 3.7
Pit Dimension (m3): 450

Eastings (GDA 94): 363097.31382
Northings (GDA 94): 6325865.75567
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - SAND - yellow to dark grey, loose, medium grained, damp with some inclusions of rootlets	TP036 0.0-0.2 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.15		Fill	Fill - Sandy Gravelly CLAY - yellow, low density, damp with some inclusions of sandstone and igneous gravels		
		0.5		Fill	Fill - Sandy Gravelly CLAY - dark grey, medium density, high plasticity, damp with some inclusions of timber, concrete, tyres, roots, asphalt, plastics, brick and bonded building material fragments	TP036 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.50					
		1.5				TP036 1.4-1.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	2.5				TP036 2.4-2.5	No Odour, Staining or Asbestos Observed	
	3.0					Potential bonded ACM encountered at 2.8mbgs	
	3.5					TP036 3.4-3.5	No Odour, Staining or Asbestos Observed
	3.70				Test Pit TP036 terminated at 3.7m		End of hole. Depth limit of excavator reached.
	4.0						
	4.5						

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT - 2/9/19



BH037

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363151.200342
Northings (GDA 94): 6325851.69681
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				Fill	Fill - Silty CLAY - brown, non plastic, firm, heterogeneous with inclusions of rootlets	BH037 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.15			CL-SC	Sandy CLAY - orangey brown, medium plasticity, stiff, homogenous		
	0.50				Borehole BH037 terminated at 0.5m	BH037 0.4-0.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH039

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 1.2

Bore Diameter (mm): 50

Eastings (GDA 94): 362699.237943

Northings (GDA 94): 6325994.68875

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Gravelly Silty SAND - brownish grey, heterogeneous, damp, medium density, poorly sorted	BH039 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.25		Fill	Fill - Clayey SAND - light brown, heterogeneous, damp, medium density, poorly sorted with trace inclusions of gravels	BH039 0.2-0.3 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.60		SC	Clayey SAND - orangey brown, homogeneous, damp, well sorted, medium density	BH039 0.4-0.5	No Odour, Staining or Asbestos Observed
	1	0.90		CL	CLAY - grey with red and yellow mottling, homogeneous, damp, firm, medium plasticity	BH039 0.9-1.0	No Odour, Staining or Asbestos Observed
		1.20			Borehole BH039 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH040

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.8
Bore Diameter (mm): 450

Eastings (GDA 94): 362763.247441
Northings (GDA 94): 6326008.08523
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy Clayey SILT - medum grey, fine grained, damp, dense, homogeneous with trace inclusions of rootlets	BH040 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.30		SC	Clayey SAND - orange, medium grained, loose, homogeneous, damp	BH040 0.4-0.5	No Odour, Staining or Asbestos Observed
	1	0.80		SC	Clayey SAND - orangey white with red mottling, damp, loose with some inclusions of igneous and sandstone gravels	BH040 0.9-1.0	No Odour, Staining or Asbestos Observed
		1.80				Borehole BH040 terminated at 1.8m	BH040 1.7-1.8
	2						
	3						
	4						
	5						
	6						



TP041

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362809.612882
Northings (GDA 94): 6325980.28713
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit		0.10		Fill	Fill - Sandy SILT - light to medium grey, medium grained, damp, homogenous	TP041 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - orange, medium grained, damp, loose, homogenous		
		0.40		CL-SC	Sandy CLAY - reddish white, medium plasticity, heterogenous with iron staining and trace inclusions of ironstone and sandstone gravels	TP041 0.3-0.4 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
						TP041 1.0-1.1	No Odour, Staining or Asbestos Observed
	1.20				Test Pit TP041 terminated at 1.2m		End of Hole at Program Depth



TP042

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.8
Pit Dimension (m3): 450

Eastings (GDA 94): 362855.079837
Northings (GDA 94): 6325961.80611
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark brown, loose, damp	TP042 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - reddish orange with white mottling, medium density and plasticity with some inclusions of ironstone gravels	TP042 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.5				TP042 0.7-0.8	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	0.80				Test Pit TP042 terminated at 0.8m		
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP043

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 8/12/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362916.42642
Northings (GDA 94): 6325956.67551
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - light to medium brown with white speckles, loose, dry, low density, heterogeneous with trace inclusions of rootlets	TP043 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.30			SC	Clayey SAND - yellow, medium grained, loose, heterogeneous		
	0.5			CL-SC	Sandy CLAY - yellow, medium grained, loose, heterogeneous	TP043 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.50			CL-SC	Sandy CLAY - yellow, medium grained, loose, heterogeneous	TP043 0.5-0.6	No Odour, Staining or Asbestos Observed
	0.60				Test Pit TP043 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP044

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 8/12/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.4
Pit Dimension (m3): 450

Eastings (GDA 94): 362964.002214
Northings (GDA 94): 6325946.74751
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - light brown with white speckles, loose, moist, heterogeneous with trace inclusions of rootlets	TP044 0.0-0.1 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
	0.30			Fill	Fill - Gravelly Clayey SAND - medium brown, loose, grades to dense clay with depth, damp, heterogeneous with minor inclusions of asphalt and igneous gravels	TP044 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1.0					TP044 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.5					TP044 1.4-1.5	No Odour, Staining or Asbestos Observed
	2.0					TP044 1.9-2.0	No Odour, Staining or Asbestos Observed
	2.00	2.00		SW	SAND - orangey red with white and grey mottling, loose, medium grained, heterogeneous with trace inclusions of woody fragments	TP044 2.3-2.4	No Odour, Staining or Asbestos Observed
	2.5	2.40			Test Pit TP044 terminated at 2.4m	No Odour, Staining or Asbestos Observed End of Hole at Program Depth	
	3.0						
	3.5						
	4.0						
	4.5						



TP045

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 8/12/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 363012.436395
Northings (GDA 94): 6325934.38945
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - medium greyish brown, damp, loose, heterogeneous with trace inclusions of rootlets and woody fragments	TP045 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		SC	Clayey SAND - dark yellow with red mottling, damp, loose, heterogeneous	TP045 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0					TP045 0.9-1.0	No Odour, Staining or Asbestos Observed
		1.00				Test Pit TP045 terminated at 1m	
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP046

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 363053.388968
Northings (GDA 94): 6325923.97483
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy Clayey SILT - dark brown, moist, homogeneous	TP046 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.20		SW	SAND - greyish yellow, medium grained, wet, homogeneous, loose		
		0.50		CL	CLAY - dark brown with red mottling, moist, high plasticity, dense, heterogeneous	TP046 0.4-0.5	No Odour, Staining or Asbestos Observed
		1.0				TP046 1.0-1.1	No Odour, Staining or Asbestos Observed
	1.20				Test Pit TP046 terminated at 1.2m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP047

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.4
Pit Dimension (m3): 450

Eastings (GDA 94): 363109.185461
Northings (GDA 94): 6325912.08715
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark brown, medium grained, moist with trace inclusions of rootlets	TP047 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		SC	Clayey SAND - medium brown, medium grained, wet, homogeneous	TP047 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.70		CL	CLAY - orange with red mottling, medium density, medium plasticity		
							TP047 1.0-1.1
	1.5	1.40			Test Pit TP047 terminated at 1.4m		Groundwater encountered
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP048

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 363132.797254
Northings (GDA 94): 6325896.89819
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark grey with white speckles, moist, loose, low density, heterogeneous with trace inclusions of rootlets	TP048 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.30			SW	SAND - grey, wet, fine to medium grained, low density, loose, homogeneous	TP048 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60			CL-SC	Sandy CLAY - light reddish grey, highly plastic, wet, high density	TP048 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.20				Test Pit TP048 terminated at 1.2m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP049

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 8/12/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2
Pit Dimension (m3): 450

Eastings (GDA 94): 362683.833698
Northings (GDA 94): 6326071.21937
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations			
Test Pit				Fill	Fill - Sandy SILT - dark brown, moist, heterogeneous with some inclusions of organics, roots and woody fragments	TP049 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed			
	0.5					TP049 0.4-0.5	No Odour, Staining or Asbestos Observed			
	1.0					TP049 0.9-1.0	No Odour, Staining or Asbestos Observed			
	1.10						ML-SM	Sandy SILT - dark grey, dry, dense, homogeneous with minor inclusions of rootlets		~~ Groundlevel 1.1m ~~
	1.5								TP049 1.4-1.5	No Odour, Staining or Asbestos Observed
	1.60						SC	Clayey SAND - mustard yellow, fine to medium grained, loose, damp		
2.0		TP049 1.9-2.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth							
	2.00				Test Pit TP049 terminated at 2m					
	2.5									
	3.0									
	3.5									
	4.0									
	4.5									



TP050

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362724.594943
Northings (GDA 94): 6326037.76931
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy Gravelly ROAD BASE - light greyish brown, medium grained, heterogeneous, well graded	TP050 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.30			SC	Clayey SAND - yellowish orange, medium grained, loose, heterogeneous with minor inclusions of sandstone and ironstone gravels	TP050 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.5					TP050 0.6-0.7	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	0.70				Test Pit TP050 terminated at 0.7m		
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP051

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362773.332219
Northings (GDA 94): 6326022.16801
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit		0.10		Fill	Fill - Sandy Gravelly ROAD BASE - light greyish brown, medium grained, heterogeneous, well graded with some inclusions of igneous gravels	TP051 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.5		CL-SC	Sandy CLAY - orangey brown with red mottling, medium density and plasticity with minor inclusions of gravels		
		0.70			Test Pit TP051 terminated at 0.7m	TP051 0.6-0.7	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP052

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 4.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362829.260656
Northings (GDA 94): 6326026.36992
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations		
Test Pit	0.5			Fill	Fill - Clayey SAND -orange brown with grey mottling, loose, moist, heterogeneous with inclusions of asphalt, gravels, road base, wood and rootlets	TP052 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed		
	1.5					TP052 1.5-1.6	No Odour, Staining or Asbestos Observed		
	3.20					CL-ML	Silty CLAY - yellowish brown, medium plasticity, homogeneous	TP052 3.5-3.6	No Odour, Staining or Asbestos Observed
	3.80					SC	Clayey SAND - reddish orange, low density, homogeneous with iron staining	TP052 4.1-4.2	No Odour, Staining or Asbestos Observed
	4.20							Test Pit TP052 terminated at 4.2m	

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT - 2/9/19

~~ Groundlevel 3.2m ~~



TP053

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362876.700366
Northings (GDA 94): 6326008.38358
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - Clayey SAND - medium brown, loose, moist, heterogenous with some inclusions of roadbase gravels, asphalt, roots and rootlets	TP053 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.5							
	1.0						TP053 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.5							
	1.80				SC	Clayey SAND - light to medium brown, loose, moist, homogeneous with trace inclusions of rootlets	TP053 1.9-2.0	No Odour, Staining or Asbestos Observed
	2.0						~~ Groundlevel 1.8m ~~	
	2.40			CL	CLAY - brown, medium plasticity, dense, homogeneous	TP053 2.5-2.6	No Odour, Staining or Asbestos Observed	
	2.60				Test Pit TP053 terminated at 2.6m		End of Hole at Program Depth	
	3.0							
	3.5							
	4.0							
	4.5							



TP054

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362926.733546
Northings (GDA 94): 6326005.93455
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.10 0.5 1.0 1.5 1.70	0.10		Fill	Fill - Sandy Clayey SILT - dark brown, damp, heterogeneous with some inclusions of fine gravels, roots and rootlets	TP054 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, heterogeneous with some inclusions of plastics, concrete, medium sandstone and igneous gravels	TP054 0.4-0.5 PID = 0 ppm	No Odour, Staining or Asbestos Observed
						TP054 0.9-1.0	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - reddish brown with white mottling, dense, medium plasticity with iron staining	TP054 1.4-1.5	No Odour, Staining or Asbestos Observed
					Test Pit TP054 terminated at 1.7m		End of Hole at Program Depth



TP055

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.3
Pit Dimension (m3): 450

Eastings (GDA 94): 362967.420436
Northings (GDA 94): 6325982.9484
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-CL	Clayey SILT - light brown, compact, dense, heterogeneous with trace inclusions of igneous gravels, roots and rootlets	TP055 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5	0.40		SC	Clayey SAND - light brown, medium to fine grained, medium density, well sorted, homogeneous with some inclusions of gravels	TP055 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.80		SC	Clayey SAND - orange with white mottling with iron staining, medium grained, loose, heterogenous	TP055 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.30				Test Pit TP055 terminated at 1.3m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



BH056

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363020.690273
Northings (GDA 94): 6325976.59077
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - white to light brown, damp, angular, loose, homogeneous with trace inclusions of rootlets	BH056 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.30			CL-SC	Sandy CLAY - orange, medium plasticity, damp, stiff, homogeneous	BH056 0.3-0.4	No Odour, Staining or Asbestos Observed
	0.50				Borehole BH056 terminated at 0.5m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH057

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.55
Bore Diameter (mm): 150

Eastings (GDA 94): 363074.893629
Northings (GDA 94): 6325973.15202
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - white to light brown, damp, angular, loose, homogeneous with trace inclusions of rootlets	BH057 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.25			CL-SC	Sandy CLAY - orange, medium plasticity, damp, stiff, homogeneous	BH057 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.55				Borehole BH057 terminated at 0.55m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH058

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.6
Bore Diameter (mm): 150

Eastings (GDA 94): 363122.377224
Northings (GDA 94): 6325962.79143
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - white to light brown, damp, angular, loose, homogeneous with trace inclusions of rootlets	BH058 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - orange, medium plasticity, damp, stiff, homogeneous	BH058 0.3-0.4	No Odour, Staining or Asbestos Observed
		0.60			Borehole BH058 terminated at 0.6m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH059

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363184.66676
Northings (GDA 94): 6325935.33949
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				CL-SC	Sandy CLAY - yellow to orange, medium plasticity, stiff	BH059 0.0-0.1	No Odour, Staining or Asbestos Observed
						BH059 0.3-0.4	No Odour, Staining or Asbestos Observed
	0.50				Borehole BH059 terminated at 0.5m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



TP060

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362688.961497
Northings (GDA 94): 6326112.99437
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-SM	Sandy SILT - light grey, dry, loose, homogeneous with inclusions of roots and rootlets	TP060 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5	0.40		SC	Clayey SAND - yellow tending towards orange with depth, medium to coarse grained, homogeneous	TP060 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0					TP060 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.10				Test Pit TP060 terminated at 1.1m		End of Hole at Program Depth



TP061

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362744.411038
Northings (GDA 94): 6326083.91187
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-SG	Sandy Gravelly SILT - pale grey, dry, dense, heterogenous with some inclusions of ironstone nodules	TP061 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.30			SC-SG	Clayey Gravelly SAND - brownish, dry, high density	TP061 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60				Test Pit TP061 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP062

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362785.716741
Northings (GDA 94): 6326059.24734
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				MH-SM	Sandy SILT - dark brown, wet, medium to fine grained, homogeneous with inclusions of roots and rootlets	TP062 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.20			SC	Clayey SAND - yellowish brown, medium grained, homogeneous		No Odour, Staining or Asbestos Observed
	0.5					TP062 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60				Test Pit TP062 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP063

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.3
Pit Dimension (m3): 450

Eastings (GDA 94): 362854.856123
Northings (GDA 94): 6326065.94046
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5	1.20		Fill	Fill - Sandy Clayey SILT - dark grey to black, heterogeneous with inclusions of concrete chunks and organic matter	TP063 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - orangey grey with red mottling, medium plasticity and density, homogeneous with trace inclusions of roots	TP063 1.3-1.4	~~ Groundlevel 1.2m ~~ No Odour, Staining or Asbestos Observed
					Test Pit TP063 terminated at 2.3m	TP063 2.2-2.3	No Odour, Staining or Asbestos Observed End of Hole at Program Depth



TP064

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362879.683419
Northings (GDA 94): 6326056.36794
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.10	0.10		Fill	Fill - Sandy Gravelly ROAD BASE - light brown, fine to medium grained, loose, well graded, heterogeneous	TP064 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				SC	Clayey SAND - orangey brown, well sorted, dense, homogeneous	TP064 0.3-0.4	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - light brown with grey mottling, medium density and plasticity, homogeneous	TP064 0.6-0.7	No Odour, Staining or Asbestos Observed
					Test Pit TP064 terminated at 0.7m		End of Hole at Program Depth
	0.50						
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



BH065

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.6
Bore Diameter (mm): 150

Eastings (GDA 94): 362946.25189
Northings (GDA 94): 6326043.16188
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SW	SAND - white to light brown, fine, medium graded, dry, angular with trace inclusions of rootlets	BH065 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - orange, stiff, damp, medium plasticity	BH065 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.60			Borehole BH065 terminated at 0.6m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH066

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 362985.0734
Northings (GDA 94): 6326049.33014
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SW	SAND - light brown, fine, well sorted, angular, damp, loose, homogeneous with some inclusions of rootlets	BH066 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - orange, stiff, damp, homogenous	BH066 0.3-0.4	No Odour, Staining or Asbestos Observed
		0.50			Borehole BH066 terminated at 0.5m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH067

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.6
Bore Diameter (mm): 150

Eastings (GDA 94): 363087.640708
Northings (GDA 94): 6326037.7334
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SW	SAND - light brown, fine, well sorted, angular, damp, loose, homogeneous with some inclusions of rootlets	BH067 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.25		CL-SC	Sandy CLAY - orange, stiff, damp, homogenous	BH067 0.3-0.4	No Odour, Staining or Asbestos Observed
		0.60			Borehole BH067 terminated at 0.6m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH068

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.55
Bore Diameter (mm): 150

Eastings (GDA 94): 363150.933782
Northings (GDA 94): 6326020.24168
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA	0.15			SW	SAND - light brown, fine, well sorted, angular, damp, loose, homogeneous with some inclusions of rootlets	BH068 0.0-0.1	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - orange, stiff, damp, homogenous	BH068 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.55				Borehole BH068 terminated at 0.55m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH069

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.45
Bore Diameter (mm): 150

Eastings (GDA 94): 363182.017928
Northings (GDA 94): 6325997.89259
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA	0.15			SW	SAND - light brown, fine, well sorted, angular, damp, loose, homogeneous with some inclusions of rootlets	BH069 0.0-0.1	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - orange, stiff, damp, homogenous	BH069 0.3-0.4	No Odour, Staining or Asbestos Observed
	0.45				Borehole BH069 terminated at 0.45m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



TP071

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.4
Pit Dimension (m3): 450

Eastings (GDA 94): 362695.909417
Northings (GDA 94): 6326164.63123
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5	0.50		Fill	Fill - SILT - brown, non plastic, damp, heterogeneous with trace inclusions of gravels and rootlets	TP071 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - orange, firm, medium plasticity, homogeneous	TP071 0.4-0.5	No Odour, Staining or Asbestos Observed
						TP071 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.5	1.40			Test Pit TP071 terminated at 1.4m		End of Hole at Program Depth



TP072

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362747.508717
Northings (GDA 94): 6326157.12376
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP072 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.20		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm		
		0.5				TP072 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60				Test Pit TP072 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP073

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 362794.301085
Northings (GDA 94): 6326155.48206
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP073 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP073 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP073 terminated at 0.9m		End of Hole at Program Depth



TP074

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362844.792182
Northings (GDA 94): 6326148.10696
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and gravels	TP074 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
							TP074 0.2-0.3
		0.35		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm		
		0.5					TP074 0.4-0.5
	0.60				Test Pit TP074 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP075

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.5
Pit Dimension (m3): 450

Eastings (GDA 94): 362896.560495
Northings (GDA 94): 6326138.82024
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Gravelly Sandy SILT - heterogeneous, dry, stiff, no plasticity with trace inclusions of rootlets	TP075 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.30		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP075 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.50			Test Pit TP075 terminated at 0.5m	TP075 0.4-0.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP076

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362947.830127
Northings (GDA 94): 6326136.85393
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SG-SM	Gravelly Silty SAND - brown, heterogeneous, damp, poorly sorted, medium density	TP076 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		CL	CLAY - grey with red mottling, homogeneous, damp, medium plasticity, firm	TP076 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.5		CL	CLAY - grey with red mottling, homogeneous, damp, medium plasticity, firm	TP076 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.60			Test Pit TP076 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP079

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 363084.142133
Northings (GDA 94): 6326098.36078
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP079 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP079 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - yellowish brown with orange mottling, homogeneous, damp, low plasticity, firm	TP079 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP079 terminated at 0.7m		End of Hole at Program Depth



BH077

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.6
Bore Diameter (mm): 150

Eastings (GDA 94): 362978.162426
Northings (GDA 94): 6326084.5359
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA	-	0.15		Fill	Fill - Sandy GRAVEL - brownish grey, rounded, well graded, loose, dry then damp with depth, heterogeneous with some inclusions of rootlets	BH077 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - orange, medium plasticity, damp, stiff, homogeneous	BH077 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60				Borehole BH077 terminated at 0.6m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH078

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.6
Bore Diameter (mm): 150

Eastings (GDA 94): 363053.745591
Northings (GDA 94): 6326076.29318
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				ML-GS	Gravelly Sandy SILT - grey, non plastic, dry, rounded, heterogeneous with trace inclusions of rootlets	BH078 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - orange, stiff, damp, medium plasticity	BH078 0.3-0.4	No Odour, Staining or Asbestos Observed
		0.60			Borehole BH078 terminated at 0.6m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH080

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363135.949253
Northings (GDA 94): 6326088.27633
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				ML-SM	Sandy SILT - grey, loose, damp, sub angular, well graded, homogeneous	BH080 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.30			CH-SC	Sandy CLAY - red with orange mottling, stiff, damp, homogeneous		
	0.50				Borehole BH080 terminated at 0.5m	BH080 0.4-0.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						





BH081

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363184.3681
Northings (GDA 94): 6326081.66173
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SW	SAND - grey, fine to medium grained, well sorted, loose, damp, sub angular with trace inclusions of rootlets	BH081 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		SC	Clayey SAND - orange, medium plasticity, damp, well sorted		
		0.50				Borehole BH081 terminated at 0.5m	BH081 0.4-0.5
	1						
	2						
	3						
	4						
	5						
	6						



TP082

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362710.421514
Northings (GDA 94): 6326194.2511
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - SILT - greyish brown, damp, heterogeneous and inclusions of wood mulch	TP082 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.5						TP082 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	1.00		SC	Clayey SAND - grey, medium grained, high plasticity, medium density, homogeneous			~~ Groundlevel 1.0m ~~
	1.5	1.30		CL	CLAY - red and orange with white mottling, dense, low plasticity, iron stained with minor inclusions of sandstone gravels		TP082 1.2-1.3	No Odour, Staining or Asbestos Observed
	1.70					Test Pit TP082 terminated at 1.7m	TP082 1.6-1.7	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	2.0							
	2.5							
	3.0							
	3.5							
	4.0							
	4.5							



TP083

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 362755.648235
Northings (GDA 94): 6326208.70418
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets, plastic and gravels	TP083 0.0-0.1 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP083 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0					TP083 0.9-1.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.00				Test Pit TP083 terminated at 1m		
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP084

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362806.425676
Northings (GDA 94): 6326198.52379
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP084 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP084 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.70			Test Pit TP084 terminated at 0.7m		End of Hole at Program Depth



TP085

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 362850.515671
Northings (GDA 94): 6326176.37889
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of gravels	TP085 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP085 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP085 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0				Test Pit TP085 terminated at 1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP086

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362904.648352
Northings (GDA 94): 6326188.16088
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - CLAY - brown, heterogeneous, dry, stiff, medium plasticity with trace inclusions of asphalt	TP086 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
				CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP086 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.35				TP086 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.5						
	0.70				Test Pit TP086 terminated at 0.7m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP087

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362954.18014
Northings (GDA 94): 6326177.33526
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-SM	Sandy SILT - brownish grey, heterogeneous, dry, low plasticity, firm	TP087 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP087 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.5				TP087 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.70			Test Pit TP087 terminated at 0.7m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP088

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362998.630228
Northings (GDA 94): 6326157.49147
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogenous, dry, medium plasticity, poorly sorted with trace inclusions of gravels and rootlets	TP088 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP088 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - yellowish brown, homogeneous, damp, medium plasticity, firm	TP088 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.10				Test Pit TP088 terminated at 1.1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP089

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.5
Pit Dimension (m3): 450

Eastings (GDA 94): 363038.317808
Northings (GDA 94): 6326122.5664
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP089 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		CL	CLAY - yellowish brown, homogeneous, damp, medium plasticity, firm	TP089 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.50			Test Pit TP089 terminated at 0.5m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP090

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 363097.055425
Northings (GDA 94): 6326124.1539
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of gravels	TP090 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP090 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - yellowish brown with orange mottling, homogeneous, damp, low plasticity, firm	TP090 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP090 terminated at 0.7m		End of Hole at Program Depth



BH091

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363164.52431
Northings (GDA 94): 6326138.28268
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - grey, fine, sub angular, loose, damp with trace inclusions of rootlets and gravels	BH091 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.30			CL-SC	Sandy CLAY - reddish orange, medium plasticity, damp		
	0.50				Borehole BH091 terminated at 0.5m	BH091 0.4-0.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH092

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363205.799393
Northings (GDA 94): 6326118.96806
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - grey, well graded, loose, damp with trace inclusions of rootlets	BH092 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.25			SC	Clayey SAND - orange, medium density, damp, well graded		
	0.50				Borehole BH092 terminated at 0.5m	BH092 0.4-0.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



TP093

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 362719.527006
Northings (GDA 94): 6326248.1031
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-CL-SC	Sandy Clayey SILT - dark grey, wet to moist with trace inclusions of roots and rootlets	TP093 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.30			CL	CLAY - orangy white, medium density and plasticity, iron staining with minor inclusions of roots and gravels	TP093 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.90				Test Pit TP093 terminated at 0.9m	TP093 0.8-0.9	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP094

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 362763.351621
Northings (GDA 94): 6326241.89841
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP094 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5			TP094 0.4-0.5		No Odour, Staining or Asbestos Observed	
	0.60			CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm		
	1.0			TP094 0.9-0.1		No Odour, Staining or Asbestos Observed End of Hole at Program Depth	
	1.00				Test Pit TP094 terminated at 1m		
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP095

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.8
Pit Dimension (m3): 450

Eastings (GDA 94): 362815.734113
Northings (GDA 94): 6326227.47635
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP095 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.35			CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP095 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.80				Test Pit TP095 terminated at 0.8m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP096

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362858.687963
Northings (GDA 94): 6326223.43664
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SG-SM	Gravelly Silty SAND - greyish brown, homogeneous, damp, poorly sorted, medium density	TP096 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP096 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP096 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP096 terminated at 0.7m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP097

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.5
Pit Dimension (m3): 450

Eastings (GDA 94): 362940.238266
Northings (GDA 94): 6326204.76014
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5 1.0 1.5	1.10		Fill	Fill - Gravelly Silty SAND - brownish grey, heterogeneous, dry, medium density, poorly sorted with trace inclusions of gravels, brick, tiles and roots	TP097 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
						TP097 0.2-0.3	No Odour, Staining or Asbestos Observed
						TP097 0.4-0.5	No Odour, Staining or Asbestos Observed
						TP097 0.9-1.0	No Odour, Staining or Asbestos Observed
						TP097 1.3-1.4	No Odour, Staining or Asbestos Observed
			CL	CLAY - light brown, damp, homogeneous, medium plasticity, firm		~~ Groundlevel 1.1m ~~	
	1.50				Test Pit TP097 terminated at 1.5m		End of Hole at Program Depth



BH098

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.65
Bore Diameter (mm): 450

Eastings (GDA 94): 362966.880165
Northings (GDA 94): 6326213.05408
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-SM	Sandy SILT - brownish grey, heterogeneous, dry, low plasticity, firm	BH098 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	BH098 0.2-0.3	No Odour, Staining or Asbestos Observed
						BH098 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.65				Borehole BH098 terminated at 0.65m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



TP099

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 363016.092763
Northings (GDA 94): 6326207.49782
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogenous, dry, medium plasticity, poorly sorted with trace inclusions of gravels and rootlets	TP099 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP099 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.35			CL	CLAY - yellowish brown, homogeneous, damp, medium plasticity, firm	TP099 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60				Test Pit TP099 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP100

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 363056.574094
Northings (GDA 94): 6326184.47902
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of gravels	TP100 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP100 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP100 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP100 terminated at 0.9m		End of Hole at Program Depth



TP101

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 363106.46127
Northings (GDA 94): 6326173.88926
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP101 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP101 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP101 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP101 terminated at 0.9m		End of Hole at Program Depth



BH102

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363153.411788
Northings (GDA 94): 6326163.68273
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SC	Clayey SAND - grey, fine, sub angular, loose, damp with trace inclusions of rootlets	BH102 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.20		CL-SC	Sandy CLAY - reddish orange, medium plasticity, damp	BH102 0.3-0.4	No Odour, Staining or Asbestos Observed
		0.50			Borehole BH102 terminated at 0.5m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						





BH103

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363230.405692
Northings (GDA 94): 6326150.9827
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SW	SAND - grey, well graded, damp, heterogeneous with trace inclusions of gravels	BH103 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.25			CL-SC	Sandy CLAY - orange, medium plasticity, damp, firm		
	0.50				Borehole BH103 terminated at 0.5m	BH103 0.4-0.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



TP104

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 362717.017249
Northings (GDA 94): 6326296.25758
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP104 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
						TP104 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP104 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP104 terminated at 0.9m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP105

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362772.426433
Northings (GDA 94): 6326291.79317
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5	0.50		Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP105 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP105 0.4-0.5	No Odour, Staining or Asbestos Observed
						TP105 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.10				Test Pit TP105 terminated at 1.1m		End of Hole at Program Depth



TP106

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 362817.408032
Northings (GDA 94): 6326292.01238
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5	0.50		SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with some inclusions of rootlets and rounded gravels	TP106 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP106 0.2-0.3	No Odour, Staining or Asbestos Observed
						TP106 0.4-0.5	No Odour, Staining or Asbestos Observed
						CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm
	1.0					TP106 0.9-1.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.00				Test Pit TP106 terminated at 1m		
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP107

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362872.211221
Northings (GDA 94): 6326265.03998
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and rounded gravels	TP107 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP107 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP107 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.10				Test Pit TP107 terminated at 1.1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP108

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 362922.953218
Northings (GDA 94): 6326261.67465
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - light brown, homogeneous, damp, medium density	TP108 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP108 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - orangey brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP108 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP108 terminated at 0.9m		End of Hole at Program Depth



BH109

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Bore Diameter (mm): 450

Eastings (GDA 94): 362972.436426
Northings (GDA 94): 6326252.74166
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with some inclusions of rootlets and gravels	BH109 0.0-0.1	No Odour, Staining or Asbestos Observed
						BH109 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.35			CL-SC	Sandy CLAY - light brown, homogeneous, damp, low plasticity, firm	BH109 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Borehole BH109 terminated at 0.7m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						





TP110

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.8
Pit Dimension (m3): 450

Eastings (GDA 94): 363031.174043
Northings (GDA 94): 6326239.24788
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - dark grey, homogeneous, damp, low plasticity, firm with trace inclusions of rootlets	TP110 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.30			CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP110 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.80				Test Pit TP110 terminated at 0.8m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP111

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 363053.399088
Northings (GDA 94): 6326234.48537
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5			SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP111 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP111 0.2-0.3	No Odour, Staining or Asbestos Observed
						TP111 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.60		CL-SC	Sandy CLAY - light grey with yellow mottling, homogeneous, low plasticity, damp, firm	TP111 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.00				Test Pit TP111 terminated at 1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP112

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 363116.033335
Northings (GDA 94): 6326222.96447
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP112 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP112 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP112 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.60			Test Pit TP112 terminated at 0.6m		End of Hole at Program Depth



BH113

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363163.730559
Northings (GDA 94): 6326235.12037
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - grey, homogenous, damp, loose, well sorted with trace inclusions of rootlets	BH113 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.20			SC	Clayey SAND - light brown, homogenous, medium density, trace gravels, poorly sorted	BH113 0.3-0.4	No Odour, Staining or Asbestos Observed
	0.40			CL-SC	Sandy CLAY - brown with red mottling, homogenous, damp, low plasticity, stiff		
	0.50				Borehole BH113 terminated at 0.5m		End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH114

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: R Lill
Contractor: JBS&G
Total Hole Depth (mbgs): 0.6
Bore Diameter (mm): 150

Eastings (GDA 94): 363213.736909
Northings (GDA 94): 6326202.57656
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - grey, homogenous, damp, loose, well sorted with trace inclusions of rootlets	BH114 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.25			SC	Clayey SAND - light brown, homogenous, medium density, with trace inclusions of gravels		
	0.40			CL-SC	Sandy CLAY - brown with red mottling, homogenous, damp, low plasticity, stiff		
	0.60				Borehole BH114 terminated at 0.6m	BH114 0.5-0.6	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



TP116

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362777.793213
Northings (GDA 94): 6326336.97692
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP116 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5					TP116 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60			CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm		
	1.0					TP116 0.9-1.1	No Odour, Staining or Asbestos Observed
	1.10				Test Pit TP116 terminated at 1.1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP117

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362832.093166
Northings (GDA 94): 6326329.21899
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and rounded gravels	TP117 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP117 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, medium plasticity, damp, firm	TP117 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.20				Test Pit TP117 terminated at 1.2m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP118

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362879.32539
Northings (GDA 94): 6326318.31045
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, dry, well sorted, medium density, medium plasticity with trace inclusions of rootlets	TP118 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		SC	Clayey SAND - yellowish brown, homogeneous, damp, medium density, well sorted	TP118 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5					TP118 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.10				Test Pit TP118 terminated at 1.1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP119

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 362927.875157
Northings (GDA 94): 6326319.74234
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - brownish grey, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP119 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		CL-SC	Sandy CLAY - yellowish brown, homogeneous, low plasticity, damp, firm	TP119 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.5				TP119 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP119 terminated at 0.9m		End of Hole at Program Depth



TP120

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362979.58019
Northings (GDA 94): 6326297.19175
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - light brown, homogeneous, damp, poorly sorted, medium density with trace inclusions of gravels	TP120 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP120 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP120 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP120 terminated at 0.7m		End of Hole at Program Depth



TP121

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 363040.699063
Northings (GDA 94): 6326286.87298
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit	0.35	0.35		SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP121 0.0-0.1	No Odour, Staining or Asbestos Observed	
							TP121 0.2-0.3	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - yellowish brown, homogeneous, damp, low plasticity	TP121 0.4-0.5	No Odour, Staining or Asbestos Observed	
	1.00	1.00			Test Pit TP121 terminated at 1m		End of Hole at Program Depth	
	1.5							
	2.0							
	2.5							
	3.0							
	3.5							
	4.0							
	4.5							



TP122

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.8
Pit Dimension (m3): 450

Eastings (GDA 94): 363077.211636
Northings (GDA 94): 6326282.90422
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP122 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		CL	CLAY - light brown, damp, homogeneous, medium plasticity, firm	TP122 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.5				TP122 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.80				Test Pit TP122 terminated at 0.8m		End of Hole at Program Depth



TP123

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 363125.6054
Northings (GDA 94): 6326272.03967
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5	0.50		SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and gravels	TP123 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP123 0.2-0.3	No Odour, Staining or Asbestos Observed
						TP123 0.4-0.5	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm		
	1.0				Test Pit TP123 terminated at 1m	TP123 0.9-1.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP124

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 363168.493068
Northings (GDA 94): 6326292.27049
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and gravels	TP124 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP124 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP124 terminated at 0.7m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP125

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 363216.911915
Northings (GDA 94): 6326257.34542
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and gravels	TP125 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.35			CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP125 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.00				Test Pit TP125 terminated at 1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP126

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362741.995385
Northings (GDA 94): 6326400.56367
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP126 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP126 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.35			CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP126 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP126 terminated at 0.7m		End of Hole at Program Depth



TP127

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362787.158829
Northings (GDA 94): 6326389.69751
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP127 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30		CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP127 0.2-0.3	No Odour, Staining or Asbestos Observed
		0.5				TP127 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.70			Test Pit TP127 terminated at 0.7m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP128

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.4
Pit Dimension (m3): 450

Eastings (GDA 94): 362840.993988
Northings (GDA 94): 6326366.02593
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5			SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with some inclusions of rootlets and rounded gravels	TP128 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP128 0.2-0.3	No Odour, Staining or Asbestos Observed
						TP128 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.60		CL	CLAY - brown with red, yellow and grey mottling, homogeneous, damp, medium plasticity, firm	TP128 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.5	1.40			Test Pit TP128 terminated at 1.4m		End of Hole at Program Depth



TP129

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362905.330666
Northings (GDA 94): 6326358.27989
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and gravels	TP129 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP129 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, wet, firm	TP129 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.10				Test Pit TP129 terminated at 1.1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP130

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.3
Pit Dimension (m3): 450

Eastings (GDA 94): 362936.371724
Northings (GDA 94): 6326358.56567
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5			SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP130 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP130 0.2-0.3	
						TP130 0.4-0.5	
	1.0			CL-SC	Sandy CLAY - yellowish brown, homogeneous, low plasticity, damp, firm	TP130 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.30				Test Pit TP130 terminated at 1.3m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP131

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 362993.867719
Northings (GDA 94): 6326345.61059
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				ML-SM	Sandy SILT - dark grey, loose, damp, heterogeneous with trace inclusions of roots and rootlets	TP131 0.1-0.2	No Odour, Staining or Asbestos Observed
		0.30		SW	SAND - grey, fine to medium grained, damp, heterogeneous with some inclusions of gravels	TP131 0.2-0.3	
		0.5				TP131 0.4-0.5	
		0.60		CL	CLAY - reddish white, medium density, firm, heterogeneous with some inclusions of sandstone gravels		
	1.0					TP131 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.00				Test Pit TP131 terminated at 1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP132

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 363031.174043
Northings (GDA 94): 6326346.40435
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5	0.50		SM	Silty SAND - greyish brown, homogenous, dry, medium plasticity, poorly sorted with trace inclusions of gravels and rootlets	TP132 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP132 0.2-0.3	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP132 0.5-0.6	No Odour, Staining or Asbestos Observed
	1.20				Test Pit TP132 terminated at 1.2m		End of Hole at Program Depth



TP133

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.9
Pit Dimension (m3): 450

Eastings (GDA 94): 363086.102262
Northings (GDA 94): 6326330.68694
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, heterogeneous, damp, medium plasticity, poorly sorted with trace inclusions of wood and gravels	TP133 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP133 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.35			CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP133 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.90			Test Pit TP133 terminated at 0.9m		End of Hole at Program Depth



TP134

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 363135.949253
Northings (GDA 94): 6326317.82929
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP134 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - grey with red mottling, homogeneous, moist, medium plasticity, firm	TP134 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP134 terminated at 0.7m		End of Hole at Program Depth



TP136

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 16/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 363228.631508
Northings (GDA 94): 6326285.83113
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.5	0.50		SG-SM	Gravelly Silty SAND - greyish brown, homogeneous, damp, poorly sorted, medium density	TP136 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP136 0.2-0.3	No Odour, Staining or Asbestos Observed
				CL	CLAY - light grey with yellow mottling, damp, homogeneous, medium plasticity, firm	TP136 0.5-0.6	No Odour, Staining or Asbestos Observed
	0.70				Test Pit TP136 terminated at 0.7m		End of Hole at Program Depth



TP137

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.65
Pit Dimension (m3): 450

Eastings (GDA 94): 362843.313844
Northings (GDA 94): 6326006.02951
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy ROAD BASE - yellow, medium grained, medium density and inclusions of rootlets and roadbase gravels	TP137 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.20		SC	Clayey SAND - light brownish yellow, dry, loose with minor inclusions of ironstone gravels and roots		
		0.50		CL-ML	Silty CLAY - orangish brown, medium plasticity and density	TP137 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.65			Test Pit TP137 terminated at 0.65m	TP137 0.6-0.7	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP138

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362887.582063
Northings (GDA 94): 6325994.12482
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy gravelly ROAD BASE - pale grey, fine grained, loose, dry, heterogeneous, well graded with some inclusions of igneous gravels	TP138 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.15			SC	Clayey SAND - brownish orange, fine to medium grained, heterogeneous with trace inclusions of fine gravels	TP138 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.25			CL-ML	Silty CLAY - light brown, medium plasticity, medium density, homogenous		
	0.5					TP138 0.5-0.6	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	0.60				Test Pit TP138 terminated at 0.6m		
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP139

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362864.984485
Northings (GDA 94): 6326051.12746
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - Clayey SAND - orangey brown with grey mottling, moist, loose with some inclusions of wood, rootlets and gravels	TP139 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.5							
	1.0	1.00		SC	Clayey SAND - orangey red with iron staining, medium grained, loose, medium density	TP139 0.9-1.0	No Odour, Staining or Asbestos Observed ~~ Groundlevel 1.0m ~~	
	1.5						TP139 1.2-1.3	No Odour, Staining or Asbestos Observed
	2.0	1.80		CL	CLAY - orange with grey mottling, homogeneous, medium density			
	2.20				Test Pit TP139 terminated at 2.2m	TP139 2.1-2.2	No Odour, Staining or Asbestos Observed End of Hole at Program Depth	
	2.5							
	3.0							
	3.5							
	4.0							
	4.5							



TP140

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362877.625749
Northings (GDA 94): 6326033.62661
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Clayey Gravelly SAND - orangey brown, dry, medium grained with some inclusions of asphalt and roots	TP140 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		Fill	Fill - Clayey Gravelly SAND - orangey brown, moist, medium grained with some inclusions of asphalt and roots		
	1.0					TP140 0.9-1.0 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	1.20				Test Pit TP140 terminated at 1.2m		End of Hole. Test Pit Excavated Stockpile Only.
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP141

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.8
Pit Dimension (m3): 450

Eastings (GDA 94): 362900.018427
Northings (GDA 94): 6326050.98391
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
Test Pit				Fill	Fill - Clayey SAND - light to medium brown, medium grained, loose with some inclusions of asphalt and roots	TP141 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed	
	0.5							
	1.0						TP141 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.20			CL-SC	Sandy CLAY - orangey grey, dense, low plasticity, firm			
	1.5					TP141 1.6-1.7	No Odour, Staining or Asbestos Observed	
	1.80				Test Pit TP141 terminated at 1.8m		End of Hole at Program Depth	
	2.0							
	2.5							
	3.0							
	3.5							
	4.0							
	4.5							



BH142

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 50

Eastings (GDA 94): 362553.284435
Northings (GDA 94): 6325788.12005
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Gravelly Silty SAND - greyish brown, heterogeneous, damp, poorly sorted, medium density	BH142 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.15			Fill	Fill - Sandy SILT - - greyish brown, homogeneous, damp, low plasticity, soft	BH142 0.2-0.3 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.30			CL-SC	Sandy CLAY - orangey brown, homogeneous, damp, low plasticity, firm	BH142 0.4-0.5	No Odour, Staining or Asbestos Observed
	1						
	1.20				Borehole BH142 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH143

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 12/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 50

Eastings (GDA 94): 362610.963717
Northings (GDA 94): 6325778.59503
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Gravelly Silty SAND - brown, heterogeneous, medium density, poorly sorted	BH143 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - Clayey SAND - yellowish brown, heterogeneous, damp, medium density, poorly sorted with trace inclusions of gravels	BH143 0.2-0.3 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	0.40			CL	CLAY - greyish brown with red mottling, heterogeneous, damp, high plasticity, firm	BH143 0.4-0.5	No Odour, Staining or Asbestos Observed
	1						
	1.20				Borehole BH143 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



TP144

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 4.3

Pit Dimension (m3): 450

Eastings (GDA 94): 362808.609242

Northings (GDA 94): 6325804.92512

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.10 0.5 1.0 1.10 1.5 2.0 2.5 3.0 3.5 4.0	0.10		Fill	Fill - Sandy SILT - dark grey, fine, heterogeneous with trace inclusions of rootlets	TP144 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Sandy Gravelly CLAY - light brownish orange, dry, medium plasticity, heterogeneous with some inclusions of plastics and wood	TP144 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, damp and with inclusions of concrete blocks, timber	TP144 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, damp and with inclusions of concrete blocks, timber	TP144 1.4-1.5	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, damp and with inclusions of concrete blocks, timber	TP144 1.9-2.0	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, damp and with inclusions of concrete blocks, timber	TP144 2.4-2.5	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, damp and with inclusions of concrete blocks, timber	TP144 2.9-3.0	No Odour, Staining or Asbestos Observed
				Fill	Fill - Clayey SAND - dark brown, dense, damp and with inclusions of concrete blocks, timber	TP144 3.4-3.5	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - white to pale grey, medium grained, wet, loose, low density, homogeneous	TP144 3.9-4.0	No Odour, Staining or Asbestos Observed
				CL-SC	Sandy CLAY - white to pale grey, medium grained, wet, loose, low density, homogeneous	TP144 4.2-4.3	No Odour, Staining or Asbestos Observed
	4.30				Test Pit TP144 terminated at 4.3m		End of Hole at Program Depth
	4.5						

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP145

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 4.3

Pit Dimension (m3): 450

Eastings (GDA 94): 362848.301648

Northings (GDA 94): 6325803.93281

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark brown, fine, moist, homogeneous	TP145 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.30			Fill	Fill - Sandy CLAY - yellowish brown, medium grained, moist dense, heterogeneous with trace inclusions of fine sandstone gravels, woody fragments and rootlets	TP145 0.4-0.5 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
	0.80			Fill	Fill - SAND - grey, medium grained, loose, moist, homogeneous	TP145 0.9-1.0 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1.30			Fill	Fill - Sandy CLAY - dark grey and orange mottling, moist, medium density and plasticity with minor inclusions of brick, tree branches, terracotta pipe and igneous gravels	TP145 1.4-1.5 PID = 0 ppm	No Odour, Staining or Asbestos Observed
	2.0					TP145 1.9-2.0	No Odour, Staining or Asbestos Observed
	2.5					TP145 2.4-2.5	No Odour, Staining or Asbestos Observed
	3.0					TP145 2.9-3.0	No Odour, Staining or Asbestos Observed
					TP145 3.4-3.5	No Odour, Staining or Asbestos Observed	
					TP145 3.9-4.0	No Odour, Staining or Asbestos Observed	
	4.30				Test Pit TP145 terminated at 4.3m		End of hole. Depth limit of excavator reached.
	4.5						

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



TP146

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Ken Coles

Total Hole Depth (mbgs): 4.4

Pit Dimension (m3): 450

Eastings (GDA 94): 362907.103393

Northings (GDA 94): 6325798.97951

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark brownish grey, moist, homogeneous with trace inclusions of rootlets	TP146 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.30		Fill	Fill - Sandy CLAY - dark orangey brown, dense, damp, medium plasticity with trace inclusions of fine gravels	TP146 0.3-0.4 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.40		Fill	Fill - Sandy Gravelly CLAY - black, medium grained, dense, low plasticity, damp with some inclusions of sandstone blocks		
		1.00		Fill	Fill - Sandy CLAY - dark grey, grades from moist to wet with increasing depth, high plasticity, dense and with inclusions of woody fragments, large concrete blocks, plastics, sandstone blocks and PVC piping	TP146 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		1.50				TP146 1.4-1.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		2.00				TP146 1.9-2.0	No Odour, Staining or Asbestos Observed
		2.50				TP146 2.4-2.5	No Odour, Staining or Asbestos Observed
		3.00				TP146 2.9-3.0	No Odour, Staining or Asbestos Observed
		3.50				TP146 3.4-3.5	No Odour, Staining or Asbestos Observed
		4.00				TP146 3.9-4.0	No Odour, Staining or Asbestos Observed
	4.50	4.40			Test Pit TP146 terminated at 4.4m	End of hole. Depth limit of excavator reached.	

TEST PIT - JBSG TEST PIT - 2017.GPJ GINT STD AUSTRALIA.GDT - 2/9/19



BH147

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 13/08/2019

Logged By: M Smith

Contractor: Terratest

Total Hole Depth (mbgs): 1.2

Bore Diameter (mm): 50

Eastings (GDA 94): 362651.860445

Northings (GDA 94): 6326029.67453

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Sandy SILT - medium grey, fine grained, dry, loose with trace inclusions of rootlets	BH147 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
		0.20		Fill	Fill - Clayey SAND - light yellowish grey, medium grained, loose, dry, homogeneous	BH147 0.3-0.4 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1	0.70		CL-SC	Sandy CLAY - orange red with white mottling, medium plasticity, dense, dry, heterogeneous	BH147 0.9-1.0	No Odour, Staining or Asbestos Observed
		1.20			Borehole BH147 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH148

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 1.2

Bore Diameter (mm): 50

Eastings (GDA 94): 362541.092411

Northings (GDA 94): 6325885.77619

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Gravelly Silty SAND - brown, heterogeneous, damp, poorly sorted, medium density with trace inclusions of asphalt	BH148 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - Clayey SAND - yellowish brown, heterogeneous, damp, medium density, poorly sorted with trace inclusions of gravels	BH148 0.2-0.3 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.40			SC	Clayey SAND - yellowish brown, homogeneous, damp, medium density, well sorted	BH148 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.70			CL-SC	Sandy CLAY - orangey brown, damp to wet, loose plasticity, firm		
	1						
	1.20				Borehole BH148 terminated at 1.2m		End of Hole at Program Depth
	2						
	3						
	4						
	5						
	6						



BH149

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 50

Eastings (GDA 94): 362691.397211
Northings (GDA 94): 6325930.46617
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT		0.25		SM	Silty SAND - brown, homogeneous, damp, loose, well sorted	BH149 0.0-0.1	No Odour, Staining or Asbestos Observed
				SC	Clayey SAND - greyish brown, homogeneous, damp, medium plasticity, well sorted	BH149 0.2-0.3	No Odour, Staining or Asbestos Observed
		1.20			Borehole BH149 terminated at 1.2m		Increase in clay content.
							End of Hole at Program Depth



BH150

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 1.2
Bore Diameter (mm): 50

Eastings (GDA 94): 362685.576366
Northings (GDA 94): 6325821.45762
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Silty SAND - brown, homogeneous, damp, loose, well sorted	BH150 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		0.20		Fill	Fill - Sandy CLAY - light brown, heterogeneous, damp, low plasticity, firm with trace inclusions of gravels	BH150 0.2-0.3 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.40		SM	Silty SAND - greyish brown, homogeneous, damp, loose, well sorted	BH150 0.4-0.5	No Odour, Staining or Asbestos Observed
		1				BH150 0.9-1.0	No Odour, Staining or Asbestos Observed
		1.20			Borehole BH150 terminated at 1.2m		End of Hole at Program Depth



TP151

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.4
Pit Dimension (m3): 450

Eastings (GDA 94): 362776.188712
Northings (GDA 94): 6325800.27647
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark greyish brown with white speckles, fine grained, damp, loose, heterogeneous with trace inclusions of roots and rootlets	TP151 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.30			Fill	Fill - Sandy SILT - light brownish yellow and grey mottling, heterogeneous, medium grained, damp	TP151 0.4-0.5 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	1.0			CL-SC	Sandy CLAY - reddish white, medium density and plasticity, heterogeneous, iron stained with trace inclusions of sandstone and iron gravels	TP151 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.00					TP151 1.3-1.4	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.5	1.40			Test Pit TP151 terminated at 1.4m		



BH152

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Swinfield
Contractor: Terratest
Total Hole Depth (mbgs): 6.5
Bore Diameter (mm): 150

Eastings (GDA 94): 363099.978237
Northings (GDA 94): 6325850.94005
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations	
SFA				Fill	Fill - Sandy SILT - dark brown, heterogeneous, damp, low plasticity, soft with trace inclusions of gravels	BH152 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed	
	0.30			Fill	Fill - Sandy CLAY - brown, heterogeneous, damp, medium plasticity, soft to firm with trace inclusions of gravels, asphalt, wood and concrete			
	1					BH152 0.9-1.0 PID = 0 ppm	No Odour, Staining or Asbestos Observed	
	2							
	3						BH152 2.9-3.0	Slight Organic Odour. No Staining or Asbestos Observed
	4							
	4.20			CL-SC	Sandy CLAY - light brown to greyish brown, homogeneous, damp, soft, medium plasticity			
	5					BH152 4.9-5.0	Slight Organic Odour. No Staining or Asbestos Observed	
	5.70			CL	CLAY - grey with red mottling, homogeneous, damp, firm, high plasticity			
	6							
	6.50				Borehole BH152 terminated at 6.5m	BH152 6.4-6.5	Slight Organic Odour. No Staining or Asbestos Observed End of Hole at Program Depth	

BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA.GDT 2/9/19



BH153

Project Number: 56387

Client: Doyalson Wyee RSL Ltd.

Project Name: Detailed Site Investigation Doyalson

Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019

Logged By: M Swinfield

Contractor: Terratest

Total Hole Depth (mbgs): 5.5

Bore Diameter (mm): 150

Eastings (GDA 94): 363055.30894

Northings (GDA 94): 6325857.69734

Zone/Area/Permit#:

Reference Level: Ground Surface

Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
PT				Fill	Fill - Sandy SILT - dark brown, heterogeneous, damp, low plasticity, soft with trace inclusions of rootlets	BH153 0.0-0.1 PID = 0 ppm	No Odour, Staining or Asbestos Observed
		0.30		Fill	Fill - Sandy CLAY - brown, heterogeneous, damp, firm, low plasticity with trace inclusions of gravels and wood chips	BH153 0.4-0.5 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	1					BH153 0.9-1.0 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
		1.40		Fill	Fill - Gravelly Silty SAND - dark brown, heterogeneous, damp, medium plasticity, firm with trace inclusions of gravels and wood		
	2					BH153 1.9-2.0 PID = 0.1 ppm	Visible Suspected ACM. No Odour or Staining Observed. Suspected Asbestos Fragment Recovered
		3				BH153 2.9-3.0	No Odour, Staining or Asbestos Observed
		3.70		Fill	Fill - Sandy CLAY - dark brown, heterogeneous, damp, medium plasticity, firm with trace inclusions of gravels and wood		
	4			BH153 3.9-4.0	No Odour, Staining or Asbestos Observed		
	4.40	CL	CLAY - grey with yellow and orange mottling, damp, homogeneous, firm, medium plasticity				
	5			BH153 5.3-5.4	No Odour, Staining or Asbestos Observed		
	5.50			Borehole BH153 terminated at 5.5m		End of Hole at Program Depth	
	6						

BOREHOLE JBSG BOREHOLE - 2017.GPJ GINT STD AUSTRALIA GDT 2/9/19



TP154

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 14/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 2.2
Pit Dimension (m3): 450

Eastings (GDA 94): 363055.9
Northings (GDA 94): 6325859
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy SILT - dark grey, medium grained, damp with minor inclusions of gravels and rootlets	TP154 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.20			Fill	Fill - Sandy Gravelly CLAY - dark brown, medium density and plasticity with inclusions of concrete, metal, plastics, terracotta, wood, matting and roots	TP154 0.4-0.5 PID = 0.3 ppm	No Odour, Staining or Asbestos Observed
	1.0					TP154 0.9-1.0	Large Weed Mat Encountered. No Odour, Staining or Asbestos Observed
	1.5					TP154 1.4-1.5	No Odour, Staining or Asbestos Observed
	2.0	1.90		CONGLOMERATE	CONGLOMERATE and SANDSTONE - yellow, coarse grained, weathered, breaks easily with some inclusions of fine igneous gravels	TP154 2.1-2.2	No Odour, Staining or Asbestos Observed End of Hole at Program Depth. Hole refused on Conglomerate.
	2.20				Test Pit TP154 terminated at 2.2m		



TP155

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Smith
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.7
Pit Dimension (m3): 450

Eastings (GDA 94): 362726.028572
Northings (GDA 94): 6326219.94659
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit	0.05	0.05		Fill	Fill - Sandy Gravelly ROAD BASE - grey, fine to cobble sized, dry	TP155 0.0-0.1 PID = 0.2 ppm TP155 0.1-0.2 PID = 0 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Sandy GRAVEL - brownish grey, rounded, well graded, loose, dry then damp with depth, heterogeneous with some inclusions of rootlets		
				CL	CLAY - pale grey, white and orange, dense, low plasticity, heterogeneous		
	0.30	0.30					
	0.5						
	0.70				Test Pit TP155 terminated at 0.7m	TP155 0.6-0.7	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP156

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362753.4262
Northings (GDA 94): 6326270.44045
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP156 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5					TP156 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60			CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP156 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.20				Test Pit TP156 terminated at 1.2m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP157

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1
Pit Dimension (m3): 450

Eastings (GDA 94): 362745.528799
Northings (GDA 94): 6326231.25805
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets and terracotta pipe	TP157 0.0-0.1 PID = 0.2 ppm	No Odour, Staining or Asbestos Observed
	0.35			CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP157 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0					TP157 0.9-1.0	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.00				Test Pit TP157 terminated at 1m		
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP158

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.5
Pit Dimension (m3): 450

Eastings (GDA 94): 362712.620386
Northings (GDA 94): 6326215.80935
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				Fill	Fill - Sandy CLAY - orangey brown, heterogeneous, damp, medium plasticity, firm	TP158 0.0-0.1 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
				Fill	Fill - Silty SAND - grey, heterogeneous, damp, loose, poorly sorted with trace inclusions of gravels	TP158 0.2-0.3 PID = 0.1 ppm	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, damp, firm	TP158 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0	0.70				TP158 0.9-1.0	No Odour, Staining or Asbestos Observed
	1.5					TP158 1.4-1.5	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1.50				Test Pit TP158 terminated at 1.5m		
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP159

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.6
Pit Dimension (m3): 450

Eastings (GDA 94): 362789.338763
Northings (GDA 94): 6326217.11693
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP159 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.35			CL	CLAY - brown with grey mottling, homogeneous, damp, medium plasticity, firm	TP159 0.4-0.5	No Odour, Staining or Asbestos Observed
	0.60				Test Pit TP159 terminated at 0.6m		End of Hole at Program Depth
	1.0						
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						





TP160

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 0.8
Pit Dimension (m3): 450

Eastings (GDA 94): 362838.16304
Northings (GDA 94): 6326232.39641
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, damp, well sorted, medium density with trace inclusions of rootlets	TP160 0.0-0.1	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL	CLAY - brownish red with grey mottling, homogeneous, damp, medium plasticity, firm	TP160 0.4-0.5	No Odour, Staining or Asbestos Observed
		0.80			Test Pit TP160 terminated at 0.8m		End of Hole at Program Depth



TP161

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.2
Pit Dimension (m3): 450

Eastings (GDA 94): 362886.025676
Northings (GDA 94): 6326304.01528
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, moist, well sorted, medium density with trace inclusions of gravels	TP161 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP161 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, moist, firm	TP161 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.20				Test Pit TP161 terminated at 1.2m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



TP162

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: Ken Coles
Total Hole Depth (mbgs): 1.1
Pit Dimension (m3): 450

Eastings (GDA 94): 362873.788948
Northings (GDA 94): 6326298.65314
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Test Pit				SM	Silty SAND - greyish brown, homogeneous, moist, well sorted, medium density with trace inclusions of gravels and wood	TP162 0.0-0.1	No Odour, Staining or Asbestos Observed
						TP162 0.2-0.3	No Odour, Staining or Asbestos Observed
	0.5	0.40		CL-SC	Sandy CLAY - brown with red and grey mottling, homogeneous, low plasticity, moist, firm	TP162 0.4-0.5	No Odour, Staining or Asbestos Observed
	1.0						
	1.10				Test Pit TP162 terminated at 1.1m		End of Hole at Program Depth
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						



BH163

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: JBS&G
Total Hole Depth (mbgs): 0.3
Bore Diameter (mm): 150

Eastings (GDA 94): 362666.304078
Northings (GDA 94): 6325851.67662
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - dark brown which grades to greyish brown at 0.15, homogeneous, damp, well sorted, medium density with trace inclusions of gravels and asphalt	BH163 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30			Borehole BH163 terminated at 0.3m	BH163 0.2-0.3	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH164

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: JBS&G
Total Hole Depth (mbgs): 0.3
Bore Diameter (mm): 150

Eastings (GDA 94): 362676.887432
Northings (GDA 94): 6325859.93164
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - dark brown which grades to greyish brown at 0.2, homogeneous, damp, well sorted, medium density with trace inclusions of gravels and asphalt	BH164 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30			Borehole BH164 terminated at 0.3m	BH164 0.2-0.3	No Odour, Staining or Asbestos Observed End of Hole at Program Depth
	1						
	2						
	3						
	4						
	5						
	6						



BH165

Project Number: 56387
Client: Doyalson Wyee RSL Ltd.
Project Name: Detailed Site Investigation Doyalson
Site Address: Doyalson Wyee RSL Ltd.

Date: 15/08/2019
Logged By: M Swinfield
Contractor: JBS&G
Total Hole Depth (mbgs): 0.3
Bore Diameter (mm): 150

Eastings (GDA 94): 362680.062438
Northings (GDA 94): 6325873.26666
Zone/Area/Permit#:
Reference Level: Ground Surface
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
HA				SM	Silty SAND - dark brown which grades to greyish brown at 0.15, homogeneous, damp, well sorted, medium density with trace inclusions of gravels and asphalt	BH165 0.0-0.1	No Odour, Staining or Asbestos Observed
		0.30			Borehole BH165 terminated at 0.3m	BH165 0.2-0.3	No Odour, Staining or Asbestos Observed
	1						
	2						
	3						
	4						
	5						
	6						

Appendix H Groundwater Monitoring Event and Surface Water Sampling Field Notes

Groundwater Gauging Data



PROJECT NAME: <u>Douglas DS1</u>	PROJECT NO: <u>56378</u>
FIELDWORK DATES: <u>12-19/8/19, 19/08/19</u>	SAMPLERS: <u>RL/MS</u>
TYPE OF INVESTIGATION: <u>GME</u>	PROJECT MANAGER: <u>RL</u>

WELL ID	DATE	TIME	DEPTH TO LNAPL (mbtoc)	DEPTH TO WATER (mbtoc)	DEPTH TO DNAPL (mbtoc)	TOTAL DEPTH (mbtoc)	NAPL VISUALLY VERIFIED?	COMMENTS
MW01	16.8.19	12.01		3.752		9.083		Roadbox
MW02	16.8.19	11.31		3.042		8.881		Roadbox
MW03	16.8.19	11.49		3.108		7.114		Roadbox
MW04	16.8.19	11.09		1.532		7.193		Stand pipe 0.913
MW05	16.8.19	12.20		3.591		7.441		Roadbox
MW06	16.8.19	12.32		7.532		7.437 7.014		Stand pipe 0.9130
MW07	16.8.19	10.43		6.320		10.091		Stand Pipe 0.860 from ground
MW08	16.8.19	11.00		1.663		7.324		Stand Pipe 0.770w.
MW01	19.8.19	12.10		4.009		9.076		Roadbox
MW02		7.30		3.346		8.879		Roadbox
MW03		8.27		3.463		7.114		Roadbox
MW04		10.19		1.674		7.441		Stand pipe
MW05		9.06		4.094		7.438		Roadbox
MW06		9.44		2.995		7.001		Stand pipe
MW07		11.00		6.403		10.080		Stand pipe
MW08	✓	11.32		2.058		7.314		Stand pipe

Notes: _____

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <i>Doyalson OSI</i>	Location: <i>South, West</i>	Well ID: <i>MW01</i>
Project number: <i>56381</i>		
Person sampling: <i>M. Smith</i>	Sampling Date: <i>19-08-19</i>	Weather: <i>fine</i>

Casing Diameter (mm):	Depth to NAPL (mBTOC):
Well Completion: <i>Flush Mount / Monument</i>	Depth to SWL (mBTOC): <i>4.009</i>
Well Cap Type: <i>Locking Cap / PVC / Other</i>	NAPL Thickness (m): <i>L</i>
Well Condition: <i>Good / Compromised (see notes)</i>	Depth to EoH (mbtoc): <i>9.076</i>
Calculated Well Volume (L):	Water Column Depth (m): <i>5.067</i>
Sampling Method: <i>Purge Volume: 4 Casings Vol. (L)</i>	NAPL Visually Verified? <input checked="" type="checkbox"/>
Low Flow: Pump Submersion depth (mBTOC):	

Time	Volume Purged (L)	Dissolved Oxygen (% mgL/ppm)	Temp. (°C)	pH (pH units)	EC (µS/cm)	ORP (mV)	Comments
<i>12:07</i>	<i>0.5</i>	<i>0.45</i>	<i>21.6</i>	<i>6.12</i>	<i>4763</i>	<i>52.1</i>	<i>include SWL for low flow (mBTOC) colour/odour</i>
<i>12:11</i>	<i>1.0</i>	<i>0.37</i>	<i>21.6</i>	<i>6.11</i>	<i>4770</i>	<i>40.4</i>	
<i>12:16</i>	<i>1.5</i>	<i>0.41</i>	<i>21.7</i>	<i>6.09</i>	<i>4807</i>	<i>34.7</i>	
<i>12:20</i>	<i>2.0</i>	<i>0.39</i>	<i>21.7</i>	<i>6.10</i>	<i>4716</i>	<i>39.2</i>	
Acceptable Variation*	<i>2.5</i>	<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.1 pH</i>	<i>+/-5%</i>	<i>+/-10mV</i>	Results Acceptable <input checked="" type="checkbox"/> YES/ NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
 RANGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <i>Clear</i>	Sheen: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Colour: <i>Colourless</i>	Odour: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO

Primary sample ID: <i>MW01</i>	No.	Container / Preservative
Duplicate sample: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO ID:		<i>2xV 1x A 1x M 1x In Org 1x PFAK</i>
Triplicate sample: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO ID:		
Rinsate sample: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO ID:		
Sample on ice: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO		
Field Filter Method: <i>0.45µm Filter / Not Filtered</i>		
Water Quality Meter: <i>YSI</i>		
Guaging Equipment: <i>ID, Bucket</i>		
Pump Type: <i>Perist pump</i>		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <i>Doyalson DS1</i>	Location: <i>MW02</i>	Well ID:
Project number: <i>56387</i>		
Person sampling: <i>Ryan Lill</i>	Sampling Date: <i>19.8.19</i>	Weather: <i>fine</i>

Casing Diameter (mm): <i>50</i>	Depth to NAPL (mBTOC):
Well Completion: <i>Flush Mount / Monument</i>	Depth to SWL (mBTOC): <i>3.346</i>
Well Cap Type: <i>Locking Cap / PVC / Other</i>	NAPL Thickness (m):
Well Condition: <i>Good / Compromised (see notes)</i>	Depth to EoH (mbtoc): <i>8.879</i>
Calculated Well Volume (L):	Water Column Depth (m): <i>5.533</i>
Sampling Method: Purge Volume: 4 Casings Vol. (L): Low Flow: Pump Submersion depth (mBTOC):	NAPL Visually Verified?

Time	Volume Purged L	Dissolved Oxygen % mgL/ppm	Temp. °C	pH pH units	EC µS/cm	ORP mV	Comments
		<input type="checkbox"/> % <input checked="" type="checkbox"/> mgL/ppm					include SWL for low flow (mBTOC)
<i>7.42</i>	<i>0.5</i>	<i>0.91</i>	<i>18.7</i>	<i>6.85</i>	<i>4930</i>	<i>-239.4</i>	<i>clear, 3.314</i>
<i>7.46</i>	<i>1.0</i>	<i>0.91</i>	<i>18.5</i>	<i>6.83</i>	<i>4985</i>	<i>-251.86</i>	<i>clear " 3.331</i>
<i>7.50</i>	<i>1.5</i>	<i>0.88</i>	<i>18.4</i>	<i>6.82</i>	<i>4895</i>	<i>-256.8</i>	<i>clear " 3.337</i>
<i>7.55</i>	<i>2.0</i>	<i>0.81</i>	<i>18.3</i>	<i>6.82</i>	<i>4846</i>	<i>-263.6</i>	<i>" " 3.341</i>
Acceptable Variation*	<i>2.5</i>	<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.1 pH</i>	<i>+/-5%</i>	<i>+/-10mV</i>	Results Acceptable: <input checked="" type="checkbox"/> YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <i>clear</i>	Sheen: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Colour: <i>colourless</i>	Odour: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

Primary sample ID: <i>11/MW02</i>	No.	Container / Preservative
Duplicate sample: <input checked="" type="checkbox"/> YES / NO ID: <i>QA01-GME</i>		<i>2xV, 1x1LA, 1xM, 1xPPAs, 1x100mg</i>
Triplicate sample: <input checked="" type="checkbox"/> YES / NO ID: <i>QA01-GME</i>		
Rinsate sample: YES / <input checked="" type="checkbox"/> NO ID:		
Sample on ice: <input checked="" type="checkbox"/> YES / NO		
Field Filter Method: <i>0.45µm Filter / Not Filtered</i>		
Water Quality Meter: <i>YSI</i>		
Guaging Equipment: <i>IP, Bucket</i>		
Pump Type: <i>Per. Pump</i>		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <u>Doyalson DST</u>	Location: <u>South East</u>	Well ID: <u>MW04</u>
Project number: <u>156387</u>		
Person sampling: <u>M. Smith</u>	Sampling Date: <u>19-08-19</u>	Weather: <u>fine</u>

Casing Diameter (mm): <u>50mm</u>	Depth to NAPL (mBTC):
Well Completion: <u>Flush Mount / Monument</u>	Depth to SWL (mBTC): 1.674 <u>1.722</u>
Well Cap Type: <u>Locking Cap / PVC / Other</u>	NAPL Thickness (m):
Well Condition: <u>Good / Compromised (see notes)</u>	Depth to EoH (mbtoc): <u>7.441</u>
Calculated Well Volume (L):	Water Column Depth (m): <u>5.767</u>
Sampling Method: Purge Volume: 4 Casings Vol. (L):	NAPL Visually Verified?
Low Flow: Pump Submersion depth (mBTC):	

Time	Volume Purged L	Dissolved Oxygen % mgL/ppm	Temp. °C	pH pH units	EC µS/cm	ORP mV	Comments
		<input type="checkbox"/>					include SWL for low flow (mBTC)
		<input checked="" type="checkbox"/>					odour/calcu depth
<u>11:33</u>	<u>0.5</u>	<u>0.51</u>	<u>15.8</u>	<u>4.81</u>	<u>395.6</u>	<u>195.4</u>	<u>clear, No odour</u> <u>1.722</u>
<u>11:37</u>	<u>1.0</u>	<u>0.38</u>	<u>15.8</u>	<u>4.81</u>	<u>395.3</u>	<u>183.4</u>	<u>"</u> <u>1.722</u>
<u>11:41</u>	<u>1.5</u>	<u>0.31</u>	<u>15.9</u>	<u>4.80</u>	<u>395.1</u>	<u>175.5</u>	<u>"</u> <u>1.723</u>
<u>11:44</u>	<u>2.0</u>	<u>0.29</u>	<u>15.9</u>	<u>4.80</u>	<u>395.0</u>	<u>181.2</u>	<u>"</u> <u>1.723</u>
<u>11:47</u>	<u>2.5</u>	<u>0.30</u>	<u>15.9</u>	<u>4.80</u>	<u>395.0</u>	<u>178.9</u>	<u>"</u> <u>1.724</u>
Acceptable Variation*	<u>3.0</u>	<u>+/-10%</u>	<u>+/- 0.2 °C</u>	<u>+/-0.1 pH</u>	<u>+/-5%</u>	<u>+/-10mV</u>	Results Acceptable: YES <u>NO</u>

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <u>clear</u>	Sheen: <u>YES / NO</u>
Colour: <u>no colour</u>	Odour: <u>YES / NO</u>

Primary sample ID:	No.	Container / Preservative
Duplicate sample: YES / <u>NO</u> ID:		<u>2 x V 1 x In Org 1 x M 1 x A 1 x PFAS</u>
Triplicate sample: YES / <u>NO</u> ID:		
Rinsate sample: YES / <u>NO</u> ID:		
Sample on ice: <u>YES</u> / NO		
Field Filter Method: <u>0.45µm Filter / Not Filtered</u>		
Water Quality Meter: <u>YST</u>		
Guaging Equipment: <u>DP Rocket</u>		
Pump Type: <u>Peri Pump</u>		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <i>Doyleton DS1</i>	Location:	Well ID: <i>17/W05</i>
Project number: <i>56357</i>		
Person sampling: <i>RL</i>	Sampling Date: <i>9/8/19</i>	Weather: <i>fine</i>

Casing Diameter (mm): <i>50</i>	Depth to NAPL (mBTC):
Well Completion: <i>Flush Mount / Monument</i>	Depth to SWL (mBTC): 4.094 <i>4.094</i>
Well Cap Type: <i>Locking Cap / PVC / Other</i>	NAPL Thickness (m):
Well Condition: <i>Good / Compromised (see notes)</i>	Depth to EoH (mBTC): <i>7.438</i>
Calculated Well Volume (L):	Water Column Depth (m): <i>3.344</i>
Sampling Method: Purge Volume: 4 Casings Vol. (L):	NAPL Visually Verified?
Low Flow: Pump Submersion depth (mBTC):	

Time	Volume Purged	Dissolved Oxygen	Temp.	pH	EC	ORP	Comments
	L	% mgL/ppm	°C	pH units	µS/cm	mV	include SWL for low flow (mBTC)
8:05 <i>8:05</i>	<i>0.5</i>	<i>0.52</i>	<i>19.9</i>	<i>4.83</i>	<i>109.5</i>	<i>261.2</i>	<i>Slightly turbid, recover 4.134</i>
<i>9:10</i>	<i>1.0</i>	<i>0.37</i>	<i>19.6</i>	<i>4.80</i>	<i>105.8</i>	<i>270.5</i>	<i>clear, colorless, 4.161</i>
<i>9:15</i>	<i>1.5</i>	<i>0.31</i>	<i>19.7</i>	<i>4.80</i>	<i>105.5</i>	<i>275.2</i>	<i>" " 4.181</i>
<i>9:19</i>	<i>2.0</i>	<i>0.31</i>	<i>19.7</i>	<i>4.80</i>	<i>105.6</i>	<i>275.6</i>	<i>" " 4.192</i>
Acceptable Variation*	<i>2.5</i>	<i>+/-10%</i>	<i>+/- 0.2 °C</i>	<i>+/-0.1 pH</i>	<i>+/-5%</i>	<i>+/-10mV</i>	Results Acceptable: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <i>Slightly turbid becoming clear</i>	Sheen: YES / NO
Colour: <i>light brown becoming colourless</i>	Odour: YES / NO

Primary sample ID: <i>17/W05</i>	No.	Container / Preservative
Duplicate sample: YES / NO ID:		<i>2x V. Lab, 1x M. Lab, 1x long 1x PFA</i>
Triplicate sample: YES / NO ID:		
Rinsate sample: YES / NO ID:		
Sample on ice: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Field Filter Method: <i>0.45µm Filter / Not Filtered</i>		
Water Quality Meter: <i>YSI</i>		
Quaging Equipment: <i>1/2 Bucket</i>		
Pump Type: <i>Per. Pump</i>		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <u>Doyalson DST</u>	Location: <u>North West</u>	Well ID: <u>MW06</u>
Project number: <u>56387</u>		
Person sampling: <u>M Smith</u>	Sampling Date: <u>19-08-19</u>	Weather: <u>fine</u>

Casing Diameter (mm):	Depth to NAPL (mBTC):
Well Completion: <u>Flush Mount / Monument</u>	Depth to SWL (mBTC): <u>2.995</u>
Well Cap Type: <u>Locking Cap / PVC / Other</u>	NAPL Thickness (m):
Well Condition: <u>Good / Compromised (see notes)</u>	Depth to EoH (mBTC): <u>7.001</u>
Calculated Well Volume (L):	Water Column Depth (m): <u>4.006</u>
Sampling Method: Purge Volume: 4 Casings Vol. (L):	NAPL Visually Verified?
Low Flow: Pump Submersion depth (mBTC):	

Time	Volume Purged (L)	Dissolved Oxygen (% mgL/ppm)	Temp. (°C)	pH (pH units)	EC (µS/cm)	ORP (mV)	Comments
		<input type="checkbox"/> % <input checked="" type="checkbox"/> mgL/ppm					include SWL for low flow (mBTC) Clarity / Dev. Depth
9:44	0.5	0.33	17.8	7.13	1284	-387.1	clear no dev 3.358
9:48	1.0	0.22	17.9	7.13	1285	-451.7	clear no dev 3.611
9:52	1.5	0.19	17.6	7.14	1277	-479.8	clear no dev 3.756
9:56	2.0	0.17	17.7	7.14	1274	-475.2	clear no dev 3.845
Acceptable Variation*	<u>25</u>	+/-10%	+/- 0.2 °C	+/-0.1 pH	+/-5%	+/-10mV	Results Acceptable: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <u>Clear</u>	Sheen: <u>YES / NO</u>
Colour: <u>Clear</u>	Odour: <u>YES / NO</u>

Primary sample ID: <u>MW06</u>	No.	Container / Preservative
Duplicate sample: <u>YES / NO</u> ID:		<u>2x V 1x Inorg 1x A 1x Metals 1x PFA</u>
Triplicate sample: <u>YES / NO</u> ID:		
Rinsate sample: <u>YES / NO</u> ID:		
Sample on ice: <u>YES / NO</u>		
Field Filter Method: <u>0.45µm Filter / Not Filtered</u>		
Water Quality Meter: <u>YSI</u>		
Quaging Equipment: <u>IP, Buckets</u>		
Pump Type: <u>Peri Pump</u>		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <u>Doyalson DSE</u>	Location: <u>North East</u>	Well ID: <u>MW07</u>
Project number: <u>56387</u>		
Person sampling: <u>MS</u>	Sampling Date: <u>19-08-19</u>	Weather: <u>fine</u>

Casing Diameter (mm): <u>50</u>	Depth to NAPL (mBTC):
Well Completion: <u>Flush Mount / Monument</u>	Depth to SWL (mBTC): <u>6.403</u>
Well Cap Type: <u>Locking Cap / PVC / Other</u>	NAPL Thickness (m):
Well Condition: <u>Good</u> Compromised (see notes)	Depth to EoH (mbtoc): <u>10.080</u>
Calculated Well Volume (L):	Water Column Depth (m): <u>3.677</u>
Sampling Method: Purge Volume: 4 Casings Vol. (L):	NAPL Visually Verified?
Low Flow: Pump Submersion depth (mBTC):	

Time	Volume Purged	Dissolved Oxygen	Temp.	pH	EC	ORP	Comments
	L	% mgL/ppm	°C	pH units	µS/cm	mV	include SWL for low flow (mBTC) <u>Colour</u> <u>Depth</u>
10:32	0.5	0.48	17.8	6.09	643	-323.8	Brownish orange no odour 6.433
10:35	1.0	0.42	17.8	6.04	640	-328.2	light cloudy no odour 6.436
10:39	1.5	0.39	17.9	5.96	631	-314.8	cloudy light brown no odour 6.438
10:43	2.0	0.40	17.9	5.94	650	-320.4	cloudy light brown no odour 6.440
Acceptable Variation*	<u>2.5</u>	+/-10%	+/- 0.2 °C	+/-0.1 pH	+/-5%	+/-10mV	Results Acceptable: <u>YES</u> / NO

LOW FLOW: Typical flow rate = 0.2-0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <u>Brownish orange cloudy</u>	Sheen: <u>YES / NO</u>
Colour: <u>↓ ↓</u>	Odour: <u>YES / NO</u>

Primary sample ID: <u>MW07</u>	No.	Container / Preservative
Duplicate sample: <u>YES / NO</u> ID:		<u>2x V 1x In org 1x metal 1x PFAS</u>
Triplicate sample: <u>YES / NO</u> ID:		
Rinsate sample: <u>YES / NO</u> ID:		
Sample on ice: <u>YES / NO</u>		
Field Filter Method: <u>0.45µm Filter / Not Filtered</u>		
Water Quality Meter:		
Gauging Equipment:		
Pump Type:		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Groundwater Sampling Form
FIELD RECORD SHEETS



Project name: <u>Doyalson DSI</u>	Location: <u>Central East</u>	Well ID: <u>MW08</u>
Project number: <u>56387</u>		
Person sampling: <u>M. Smith</u>	Sampling Date: <u>19-08-19</u>	Weather: <u>fine</u>

Casing Diameter (mm): <u>50</u>	Depth to NAPL (mBTOC):
Well Completion: <u>Flush Mount / Monument</u>	Depth to SWL (mBTOC): <u>2.058</u>
Well Cap Type: <u>Locking Cap / PVC / Other</u>	NAPL Thickness (m):
Well Condition: <u>Good</u> Compromised (see notes)	Depth to EoH (mbtoc): <u>7.314</u>
Calculated Well Volume (L):	Water Column Depth (m): <u>5.256</u>
Sampling Method: Purge Volume: 4 Casings Vol. (L):	NAPL Visually Verified?
Low Flow: Pump Submersion depth (mBTOC):	

Time	Volume Purged L	Dissolved Oxygen % mgL/ppm	Temp. °C	pH pH units	EC µS/cm	ORP mV	Comments
11:06	0.5	4.59	14.0	4.95	760	139.3	clear, no odour include SWL for low flow (mBTOC) 2.021
11:10	1.0	4.51	14.1	4.95	762	144.5	clear, no odour 2.045
11:13	1.5	4.37	14.3	4.94	767	150.0	clear, no odour 2.058
11:16	2.0	4.22	14.5	4.93	767	159.4	" 2.060
" 20	2.5	4.19	14.5	4.93	767	159.9	" 2.064
Acceptable Variation*	3.0	+/-10%	+/- 0.2 °C	+/-0.1 pH	+/-5%	+/-10mV	Results Acceptable: <u>YES</u> NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)
Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity: <u>clear</u>	Sheen: <u>YES/NO</u>
Colour: <u>clear</u>	Odour: <u>YES/NO</u>

Primary sample ID: <u>MW08</u>	No.	Container / Preservative
Duplicate sample: <u>YES/NO</u> ID:		1x InOrg, 1x metal, 2x V, 1x A, 1x PFAS
Triplicate sample: <u>YES/NO</u> ID:		
Rinsate sample: <u>YES/NO</u> ID:		
Sample on ice: <u>YES/NO</u>		
Field Filter Method: <u>0.45µm Filter / Not Filtered</u>		
Water Quality Meter: <u>YSI</u>		
Guaging Equipment: <u>IP Ruckets</u>		
Pump Type: <u>Peri Pump</u>		

Notes:

Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

Volume of water in well (L) = π * radius of gravel pack (m)² * height of water column (m)

*SA EPA Guidelines (June 2007) as referenced in NEPM

Surface Water Sampling Form



PROJECT NAME: <i>Doyalson DSI</i>	PROJECT NO: <i>56387</i>
FIELDWORK DATES: <i>12-19 August 2019</i>	SAMPLERS: <i>RL</i>
TYPE OF INVESTIGATION: <i>DSY</i>	PROJECT MANAGER: <i>RL</i>

Field ID Site ID	DATE	TIME	Sample Depth (m below surface)	Distance from Shore (m)	pH	Temp °C	DO % / mgL ⁻¹	EC —S/cm	Redox Potential mV	COMMENTS (odour, clarity etc.)
<i>SW01</i> <i>QAIQCOL-SW</i>	<i>13.08.19</i>	<i>15.30</i>	<i>0.2</i>	<i>1.6</i>						<i>Brown, in trees. Run off from gravel carpark likely.</i>
<i>SW02</i>	<i>"</i>	<i>15.03</i>	<i>0.2</i>	<i>1.7</i>						<i>Brown, obstacle course feature</i>
<i>SW03</i>	<i>"</i>	<i>14.50</i>	<i>0.2</i>	<i>1.8</i>						<i>Brown, obstacle course feature</i>
<i>SW04</i>	<i>"</i>	<i>14.35</i>	<i>0.2</i>	<i>1.7m</i>						<i>Brown, obstacle course water obstacle.</i>
<i>SW05</i>	<i>16.08.19</i>	<i>1012</i>	<i>0.1</i>	<i>0.5m</i>						<i>Brown, reeds, smells of stale water.</i>

Notes: *PFA, 1x Amber, 1x M and 2x Vs + 1x Inorganics taken.*

Appendix I Field Calibration Sheets

Field Equipment Calibration and Decontamination



PROJECT NAME: <i>Devalson DS1</i>	PROJECT NO: <i>56387</i>
FIELD DATES: <i>12-19 August 2019</i>	FIELD STAFF: <i>KL, MS, MS</i>

CALIBRATION SUMMARY
EQUIPMENT: <i>PID</i>
CALIBRATION STANDARD: <i>100ppm Iso</i>

DATE	TIME	READING (ppm _v)	COMMENTS
<i>12.8.19</i>	<i>0700</i>	<i>0.0</i>	<i>zero cal</i>
	<i>0701</i>	<i>100.0</i>	<i>100ppm Isobutylene</i>
	<i>0702</i>	<i>99.8</i>	<i>Bump test</i>
<i>13.8.19</i>	<i>0715</i>	<i>0.0</i>	<i>zero cal</i>
	<i>0716</i>	<i>100.0</i>	<i>100ppm Iso</i>
	<i>0718</i>	<i>99.9</i>	<i>Bump</i>
<i>14.8.19</i>	<i>0710</i>	<i>0.0</i>	<i>zero</i>
	<i>0711</i>	<i>100.0</i>	<i>100ppm Iso</i>
	<i>0713</i>	<i>99.8</i>	<i>zero</i> <i>Bump</i>
<i>15.8.19</i>	<i>0707</i>	<i>0.0</i>	<i>zero</i>
	<i>0708</i>	<i>100.0</i>	<i>100ppm</i>
	<i>0709</i>	<i>99.8</i>	<i>Bump</i>

DECONTAMINATION SUMMARY
EQUIPMENT: <i>Hand auger, trowel, SFA, sampling pole</i>

1. Was the equipment decontaminated appropriately prior to sampling at each location? Y N NA
2. Was excess soil removed by scraping, brushing or wiping with disposable towels? Y N NA
3. Was the equipment contaminated with grease, tar or similar material?
If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane? Y N NA
4. Was phosphate-free detergent used to wash the equipment? Y N NA
5. Was the equipment rinsed with clean water? Y N NA
6. Was the equipment then rinsed with deionised water? Y N NA
7. Were all sample containers cleaned and acid or solvent washed prior to sample collection? Y N NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS.
Fresh Nitrile gloves at every sample.

Appendix J Laboratories Certificates of Analysis and Reports

017018

CHAIN OF CUSTODY



PROJECT NO.: 56387
 PROJECT NAME: Central Coast DSI
 DATE NEEDED BY: STAT
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3) mswinfield.....@jbsg.com.au
 LABORATORY BATCH NO.: 671221
 SAMPLERS: SCS
 QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Cr	Mn	Ni	Cu	Zn	Asbestos	PCBs	DCHs	PFAs	TYPE OF ASBESTOS ANALYSIS		NOTES:
																		IDENTIFICATION	NEPM/WA	
BH001/mw01 0.0-0.1	Soil	12.8		JTB		x	x							x						
↓ 0.2-0.3																				
↓ 0.4-0.5																				
↓ 0.9-1.0																				
BH002/mw02 0.0-0.1						x	x							x						
↓ 0.2-0.3																				
↓ 0.4-0.5																				
↓ 0.9-1.0				Jar + Ice																
↓ 6.0-6.1				PFAS Jar + Ice																
BH003 0.0-0.1				J + B + Ice		x	x													
↓ 0.2-0.3																				
↓ 0.4-0.5				J + Ice																
BH142 0.0-0.1		1		J + B + Ice		x	x													
↓ 0.2-0.3				J + B + PFAS + Ice																
↓ 0.4-0.5				J + Ice																
BH143 0.0-0.1				J + B + Ice		x	x													
↓ 0.2-0.3																				
↓ 0.4-0.5				J + Ice																
BH115/mw06 0.0-0.1		13.8		J + B + Ice		x	x													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Graze DATE: 14/8 OF: Eurdins	COOLER SEAL - Yes..... No Intact Broken.....
NAME: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE:	COOLER TEMP 13.37 deg C
			COOLER SEAL - Yes..... No Intact Broken.....
			COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO FormsO13 - Chain of Custody - Generic

017018

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.: 671221
PROJECT NAME: Central Coast DSI	SAMPLERS: RL/MS
DATE NEEDED BY: STAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Cr	Mn	Ni	Cu	Zn	Asbestos	PCBs	OCs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
																	IDENTIFICATION	NEPM/NA		
TP08-0.0-0.1	Soil	13.8.19		J+B		+	+													
0.4-0.5																				
0.9-1.0																				
1.4-1.5																				
1.9-2.0																				
2.4-2.5																				
2.9-3.0																				
3.4-3.5																				
3.9-4.0																				
TP20-0.0-0.1						x	+								x	x				
0.4-0.5																				
0.9-1.0																				
1.4-1.5																				
1.9-2.0																				
2.4-2.5																				
2.9-3.0																				
3.4-3.5																				
TP07-0.0-0.1				J		x	x													
0.4-0.5				J+B																

RELINQUISHED BY: NAME: Ryan DATE: 13.08.19 OF: JBS&G	METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO.	RECEIVED BY: NAME: Grace DATE: 14/8 OF: EuroBm	FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes..... No Intact Broken COOLER TEMP deg C 13.37
NAME: DATE:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE:	COOLER SEAL - Yes..... No Intact Broken COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

017018

CHAIN OF CUSTODY



PROJECT NO.: 56387 LABORATORY BATCH NO.: 671221
 PROJECT NAME: Central Coast DSI SAMPLERS:
 DATE NEEDED BY: STAT QC LEVEL: NEPM (2013)
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3) m.s.w.infield@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Cr	Mn	Ni	Zn	Cu	Asbestos	PCBs	OCs	Biological*	TYPE OF ASBESTOS ANALYSIS		NOTES:	
																		IDENTIFICATION	NEPM/WA		
<u>TP07-0.9-1.0</u>	<u>Soil</u>	<u>13.8.19</u>		<u>J+B</u>																	
<u>1.4-1.5</u>				<u>J+B+BioJar(x2)</u>																	<u>*Ecoli, Fcoli, Salmonella.</u>
<u>1.9-2.0</u>				<u>J+B</u>																	
<u>2.4-2.5</u>						<u>x</u>	<u>x</u>														
<u>2.9-3.0</u>																					
<u>3.4-3.5</u>																					
<u>3.8-3.9</u>																					
<u>TP06-0.0-0.1</u>																					
<u>0.4-0.5</u>				<u>J+B</u>		<u>x</u>	<u>x</u>	<u>x</u>													
<u>0.9-1.0</u>																					
<u>1.4-1.5</u>																					
<u>1.9-2.0</u>																					
<u>2.4-2.5</u>						<u>x</u>	<u>x</u>								<u>x</u>	<u>x</u>					
<u>2.9-3.0</u>																					
<u>3.2-3.3</u>																					
<u>TP08-FRAGO1</u>	<u>Hog</u>			<u>J+B</u>																	<u>x</u>

RELINQUISHED BY: NAME: <u>Ryan</u> DATE: <u>13.8.19</u>	METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO.	RECEIVED BY: NAME: <u>Grace</u> DATE: <u>14/8</u> OF: <u>Eurdian</u>	FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes..... No Intact Broken
OF: JBS&G	CONSIGNMENT NOTE NO.	NAME: DATE: OF:	COOLER TEMP deg C
NAME: DATE:	TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL - Yes..... No Intact Broken
OF:		NAME: DATE: OF:	COOLER TEMP deg C

* Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

017018

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.: <u>671221</u>
PROJECT NAME: <u>Central Coast DSI</u>	SAMPLERS: <u>MS</u>
DATE NEEDED BY: <u>STAT</u>	QC LEVEL: NEPM (2013)
PHONE: Sydney: <u>02 8245 0300</u> Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <u>fill</u> @jbsg.com.au; (3) <u>ms.winterfield</u> @jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Cr(VI)	Asbestos	PCBs	OCs	TYPE OF ASBESTOS ANALYSIS		NOTES:				
													IDENTIFICATION	NEPM/NA					
TP51- 0.0-0.1	Soil	12.8.19		J+B		x	x			x									
0.6-0.7				J+B															
TP141- 0.0-0.1	Soil			J+B		x				x									
0.9-1.0				J+B				x											
1.6-1.7				J															
TP63- 0.4-0.5				J+B					x	x			x						
1.3-1.4	J			J															
2.2-2.3	J			J															
TP140- 0.0-0.1	Soil			J+B		x	x	x	x			x							
0.9-1.0				J+B															
TP64 0.0-0.1	Soil			J+B		x	x	x	x										
0.3-0.4				J															
0.6-0.7				J															
TP139 0.0-0.1	Soil			J+B		x	x		x	x									
0.9-1.0				J+B															
1.2-1.3				J															
2.1-2.2				J															
TP138 0.0-0.1	Soil			J+B		x			x										
0.15-0.25				J															

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <u>Ryan</u>	DATE:	CONSIGNMENT NOTE NO.	TRANSPORT CO.	NAME: <u>Grace</u>	DATE: <u>14/8</u>	COOLER SEAL - Yes..... No Intact Broken	COOLER TEMP deg C
OF: JBS&G				OF: <u>Eurofins</u>		COOLER SEAL - Yes..... No Intact Broken	COOLER TEMP deg C
NAME:	DATE:	CONSIGNMENT NOTE NO.	TRANSPORT CO.	NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	COOLER TEMP deg C
OF:				OF:		COOLER SEAL - Yes..... No Intact Broken	COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

017018

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.: <u>671221</u>
PROJECT NAME: <u>Central Coast DSI</u>	SAMPLERS: <u>MS</u>
DATE NEEDED BY: <u>STAT</u>	QC LEVEL: NEPM (2013)
PHONE: Sydney: <u>02 8245 0300</u> Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <u>chill</u> @jbsg.com.au; (3) <u>mswinfield</u> @jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Asbestos	PCBs	OCs	TYPE OF ASBESTOS ANALYSIS		NOTES	
												IDENTIFICATION	NEPM/NA		
TP138-0.5-0.6	Soil	12.8.19		J											
TP137-0.0-0.1				J+B		x	x		x						
TP137-0.4-0.5				J											
0.55-0.65				J											
TP53-0.0-0.1				J+B											
0.9-1.0				J+B		x	x								
1.9-2.0				J											
2.5-2.6				J											
TP52-0.0-0.5				J+B		x	x	x	x						
1.5-2.0				J											
3.5-3.6				J											
4.1-4.2				J											
TP33-0.0-0.1				J+B											
0.4-0.5															
0.9-1.0						x	x	x	x	x					
1.4-1.5						x	x	x	x	x					
1.9-2.0						x	x	x	x	x					
2.4-2.5															
2.9-3.0				J											

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME: <u>Gracie</u>	DATE: <u>14/18</u>	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF: <u>Eurofins</u>		COOLER TEMP deg.C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg.C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd.; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

017018

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.: <u>671221</u>
PROJECT NAME: <u>Central Coast DSI</u>	SAMPLERS: <u>MS</u>
DATE NEEDED BY: <u>STAT</u>	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3) <u>ms.winterfield</u> @jbsg.com.au	
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Cr	Mn	Ni	Cu	Zn	As	Se	Mo	Co	Fe	Al	Si	TYPE OF ASBESTOS ANALYSIS		NOTES:					
																					IDENTIFICATION	NEPM/NA						
TP43- 0.0-0.1	Soil	12.8.19		J+B		x	x							x														
0.4-0.5				J+B																								
0.5-0.6				J																								
TP44- 0.0-0.1				J+B					x	x						x	x	x										
0.4-0.5																x												
0.9-1.0																												
1.4-1.5																												
1.9-2.0																												
2.3-2.4																												
TP45- 0.0-0.1				J+B					x	x						x		x										
0.4-0.5				J																								
0.9-1.0				J																								
TP46- 0.0-0.1				J+B													x											
0.4-0.5				J+B					x	x	x					x												
1.0-1.1				J																								
TP47- 0.0-0.1	J+B					x	x						x															
0.4-0.5	J+B																											
1.0-1.1	J																											
QA02				J+B		x	x	x	x	x			x	x														

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME: <u>Gracie</u>	DATE: <u>14/18</u>	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF: JBS&G		TRANSPORT CO.		OF: <u>Eurodins</u>		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd.; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

017018

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.: <u>671221</u>
PROJECT NAME: <u>Central Coast DSI</u>	SAMPLERS: <u>MS</u>
DATE NEEDED BY: <u>STAT</u>	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3) <u>mswinfield</u> @jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS						NOTES:		
						Heavy Metals	PHHS	TRH/VOG	Asbestos	PCBs	OCs		IDENTIFICATION	NEPM/NA
TP48-0.0-0.1	Soil	12.8.19		J+B		x	x	x	x					
0.4-0.5			✓											
0.9-1.0			✓											
TP49-0.0-0.1			J+B							x				
0.4-0.5			↓					x	x		x			
0.9-1.0			↓											
1.4-1.5			↓											
1.9-2.0			↓											
TP50-0.0-0.1			J+B					x	x	x	x	x		
0.4-0.5			↓											
0.6-0.7			↓											
TP60-0.0-0.1			J+B					x	x	x	x			
0.4-0.5			↓											
0.9-1.0			↓											
TP61-0.0-0.1			J+B					x	x		x			
0.4-0.5	↓							x	x	x				
TP62-0.0-0.1	J+B					x	x		x					
0.4-0.5	↓													

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME: <u>Grace</u>	DATE: <u>14/8</u>	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF: <u>Eurochem</u>		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Melbourne

6 Monterey Road
Dandenong South Vic 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Aug 14, 2019 9:00 AM
Eurofins reference: **671221**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 13.4 degrees Celsius.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.

Notes^{N/A} Custody Seals intact (if used).

No asbestos bag received for TP138_0.0-0.1, asbestos analysis cancelled.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlill@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671221	Due: Aug 21, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	BH001/MW01 0.0-0.1	Aug 12, 2019		Soil	S19-Au20121	X					X			X					X				
2	BH001/MW01 0.2-0.3	Aug 12, 2019		Soil	S19-Au20122											X	X		X		X		
3	BH002/MW02 0.0-0.1	Aug 12, 2019		Soil	S19-Au20123	X																	
4	BH002/MW02 0.2-0.3	Aug 12, 2019		Soil	S19-Au20124						X			X		X	X		X		X		
5	BH002/MW02 6.0-6.1	Aug 12, 2019		Soil	S19-Au20125														X				X
6	BH003 0.0-0.1	Aug 12, 2019		Soil	S19-Au20126	X					X			X					X				

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
7	BH142 0.0-0.1	Aug 12, 2019		Soil	S19-Au20127	X																	
8	BH142 0.2-0.3	Aug 12, 2019		Soil	S19-Au20128						X			X		X			X				X
9	BH143 0.0-0.1	Aug 12, 2019		Soil	S19-Au20129	X					X			X					X				
10	BH115/MW06 0.0-0.1	Aug 13, 2019		Soil	S19-Au20130	X					X			X		X			X		X		
11	BH115/MW06 0.2-0.3	Aug 13, 2019		Soil	S19-Au20131	X					X			X					X				
12	BH115/MW06 4.8-4.9	Aug 13, 2019		Soil	S19-Au20132															X			X
13	BH135/MW07 0.0-0.1	Aug 13, 2019		Soil	S19-Au20133	X						X		X				X	X				
14	BH135/MW01 0.2-0.3	Aug 13, 2019		Soil	S19-Au20134						X								X				X
15	BH135/MW01	Aug 13, 2019		Soil	S19-Au20135													X		X			

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail		Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271				X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217		X	X									X					X		
Brisbane Laboratory - NATA Site # 20794														X	X	X			X
Perth Laboratory - NATA Site # 23736																			
	1.7-1.8																		
16	TS	Aug 13, 2019									X								
17	TB	Aug 13, 2019									X								
18	RIN01	Aug 13, 2019					X			X									
19	RIN02	Aug 13, 2019					X			X									
20	QC01	Aug 13, 2019					X			X	X	X	X	X			X		
21	TP08_0.0-0.1	Aug 13, 2019		X			X			X					X				
22	TP08_2.9-3.0	Aug 13, 2019						X					X	X			X		
23	TP08_3.9-4.0	Aug 13, 2019					X			X	X			X					
24	TP20_0.0-0.1	Aug 13, 2019		X															
25	TP20_0.9-1.0	Aug 13, 2019					X	X				X	X	X			X		
26	TP20_3.4-3.5	Aug 13, 2019					X			X				X					

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
27	TP07_0.0-0.1	Aug 13, 2019		Soil	S19-Au20147	X					X						X	X		X			
28	TP07_1.4-1.5	Aug 13, 2019		Soil	S19-Au20148		X		X									X			X		
29	TP07_2.4-2.5	Aug 13, 2019		Soil	S19-Au20149					X			X					X					
30	TP06_0.0-0.1	Aug 13, 2019		Soil	S19-Au20150	X																	
31	TP06_0.4-0.5	Aug 13, 2019		Soil	S19-Au20151					X			X				X	X		X			
32	TP06_2.4-2.5	Aug 13, 2019		Soil	S19-Au20152					X			X		X			X					
33	TP08_FRAG01	Aug 13, 2019		Building Materials	S19-Au20153		X																
34	TP51_0.0-0.1	Aug 12, 2019		Soil	S19-Au20154	X				X			X					X					
35	TP141_0.0-0.1	Aug 12, 2019		Soil	S19-Au20155	X					X		X					X					
36	TP141_0.9-1.0	Aug 12, 2019		Soil	S19-Au20156					X							X	X		X			
37	TP63_0.4-0.5	Aug 12, 2019		Soil	S19-Au20157	X				X			X					X					

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																	X	X	X			X
Perth Laboratory - NATA Site # 23736																						
38	TP140_0.0-0.1	Aug 12, 2019		Soil	S19-Au20158	X				X	X		X			X		X		X		
39	TP64_0.0-0.1	Aug 12, 2019		Soil	S19-Au20159	X				X			X			X		X		X		
40	TP139_0.0-0.1	Aug 12, 2019		Soil	S19-Au20160	X				X		X	X					X				
41	TP138_0.0-0.1	Aug 12, 2019		Soil	S19-Au20161					X			X					X				
42	TP137_0.0-0.1	Aug 12, 2019		Soil	S19-Au20162	X				X			X					X				
43	TP137_0.4-0.5	Aug 12, 2019		Soil	S19-Au20163										X	X		X		X		
44	TP53_0.0-0.1	Aug 12, 2019		Soil	S19-Au20164	X																
45	TP53_0.9-1.0	Aug 12, 2019		Soil	S19-Au20165								X			X		X		X		
46	TP52_0.0-0.5	Aug 12, 2019		Soil	S19-Au20166	X				X	X		X			X		X		X		
47	TP33_0.0-0.1	Aug 12, 2019		Soil	S19-Au20167	X																
48	TP33_0.9-1.0	Aug 12, 2019		Soil	S19-Au20168	X				X			X		X	X		X		X		
49	TP43_0.0-0.1	Aug 12, 2019		Soil	S19-Au20169	X				X			X					X				

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per - and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																	X	X	X			X
Perth Laboratory - NATA Site # 23736																						
50	TP44_0.0-0.1	Aug 12, 2019		Soil	S19-Au20170	X				X			X		X			X				
51	TP44_0.4-0.5	Aug 12, 2019		Soil	S19-Au20171											X		X		X		
52	TP45_0.0-0.1	Aug 12, 2019		Soil	S19-Au20172	X				X	X		X					X				
53	TP46_0.0-0.1	Aug 12, 2019		Soil	S19-Au20173	X																
54	TP46_0.4-0.5	Aug 12, 2019		Soil	S19-Au20174					X		X	X			X		X		X		
55	TP47_0.0-0.1	Aug 12, 2019		Soil	S19-Au20175	X				X			X					X				
56	QC02	Aug 12, 2019		Soil	S19-Au20176	X				X			X		X	X		X		X		
57	TP48_0.0-0.1	Aug 12, 2019		Soil	S19-Au20177	X				X			X			X		X		X		
58	TP49_0.0-0.1	Aug 12, 2019		Soil	S19-Au20178	X																
59	TP49_0.4-0.5	Aug 12, 2019		Soil	S19-Au20179					X		X	X					X				
60	TP50_0.0-0.1	Aug 12, 2019		Soil	S19-Au20180	X				X		X	X			X		X		X		
61	TP60_0.0-0.1	Aug 12, 2019		Soil	S19-Au20181	X				X			X			X		X		X		

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per - and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
140	TP60_0.9-1.0	Aug 12, 2019				X														
141	TP62_0.4-0.5	Aug 12, 2019				X														
142	TP07_0.9-1.0	Aug 12, 2019				X														
Test Counts			35	1	1	78	1	40	8	4	40	2	12	22	2	51	51	22	1	4

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill
Report 671221-AID
Project Name CENTRAL COAST DSI
Project ID 56387
Received Date Aug 14, 2019
Date Reported Aug 21, 2019

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name CENTRAL COAST DSI
Project ID 56387
Date Sampled Aug 12, 2019 to Aug 13, 2019
Report 671221-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH001/MW01 0.0-0.1	19-Au20121	Aug 12, 2019	Approximate Sample 537g Sample consisted of: Brown coarse-grained soil, rocks and bituminous fragments	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH002/MW02 0.0-0.1	19-Au20123	Aug 12, 2019	Approximate Sample 550g Sample consisted of: Brown coarse-grained soil, rocks and bituminous fragments	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH003 0.0-0.1	19-Au20126	Aug 12, 2019	Approximate Sample 283g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH142 0.0-0.1	19-Au20127	Aug 12, 2019	Approximate Sample 421g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH143 0.0-0.1	19-Au20129	Aug 12, 2019	Approximate Sample 268g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH115/MW06 0.0-0.1	19-Au20130	Aug 13, 2019	Approximate Sample 326g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH115/MW06 0.2-0.3	19-Au20131	Aug 13, 2019	Approximate Sample 579g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH135/MW07 0.0-0.1	19-Au20133	Aug 13, 2019	Approximate Sample 463g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP08_0.0-0.1	19-Au20141	Aug 13, 2019	Approximate Sample 625g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP20_0.0-0.1	19-Au20144	Aug 13, 2019	Approximate Sample 625g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP07_0.0-0.1	19-Au20147	Aug 13, 2019	Approximate Sample 561g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP06_0.0-0.1	19-Au20150	Aug 13, 2019	Approximate Sample 601g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP08_FRAG01	19-Au20153	Aug 13, 2019	Approximate Sample 38g / 100x35x4mm Sample consisted of: Grey layered fibre cement material and white paint	No asbestos detected. No trace asbestos detected.
TP51_0.0-0.1	19-Au20154	Aug 12, 2019	Approximate Sample 1037g Sample consisted of: Brown coarse-grained soil, rocks and bituminous fragments	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP141_0.0-0.1	19-Au20155	Aug 12, 2019	Approximate Sample 763g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP63_0.4-0.5	19-Au20157	Aug 12, 2019	Approximate Sample 682g Sample consisted of: Brown coarse-grained soil, rocks and cement	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP140_0.0-0.1	19-Au20158	Aug 12, 2019	Approximate Sample 731g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP64_0.0-0.1	19-Au20159	Aug 12, 2019	Approximate Sample 554g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP139_0.0-0.1	19-Au20160	Aug 12, 2019	Approximate Sample 761g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP137_0.0-0.1	19-Au20162	Aug 12, 2019	Approximate Sample 996g Sample consisted of: Brown coarse-grained soil, rocks and bituminous fragments	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP53_0.0-0.1	19-Au20164	Aug 12, 2019	Approximate Sample 842g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP52_0.0-0.5	19-Au20166	Aug 12, 2019	Approximate Sample 762g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP33_0.0-0.1	19-Au20167	Aug 12, 2019	Approximate Sample 630g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP33_0.9-1.0	19-Au20168	Aug 12, 2019	Approximate Sample 627g Sample consisted of: Brown coarse-grained soil, rocks and bituminous fragments	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP43_0.0-0.1	19-Au20169	Aug 12, 2019	Approximate Sample 655g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP44_0.0-0.1	19-Au20170	Aug 12, 2019	Approximate Sample 465g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP45_0.0-0.1	19-Au20172	Aug 12, 2019	Approximate Sample 403g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP46_0.0-0.1	19-Au20173	Aug 12, 2019	Approximate Sample 632g Sample consisted of: Brown coarse-grained soil, rocks and cement	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP47_0.0-0.1	19-Au20175	Aug 12, 2019	Approximate Sample 588g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC02	19-Au20176	Aug 12, 2019	Approximate Sample 446g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP48_0.0-0.1	19-Au20177	Aug 12, 2019	Approximate Sample 470g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP49_0.0-0.1	19-Au20178	Aug 12, 2019	Approximate Sample 529g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP50_0.0-0.1	19-Au20180	Aug 12, 2019	Approximate Sample 590g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP60_0.0-0.1	19-Au20181	Aug 12, 2019	Approximate Sample 710g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP61_0.0-0.1	19-Au20182	Aug 12, 2019	Approximate Sample 700g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP62_0.0-0.1	19-Au20184	Aug 12, 2019	Approximate Sample 636g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Aug 15, 2019	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Aug 15, 2019	Indefinite

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671221	Due: Aug 21, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	BH001/MW01 0.0-0.1	Aug 12, 2019		Soil	S19-Au20121	X					X			X					X				
2	BH001/MW01 0.2-0.3	Aug 12, 2019		Soil	S19-Au20122											X	X		X		X		
3	BH002/MW02 0.0-0.1	Aug 12, 2019		Soil	S19-Au20123	X																	
4	BH002/MW02 0.2-0.3	Aug 12, 2019		Soil	S19-Au20124						X			X		X	X		X		X		
5	BH002/MW02 6.0-6.1	Aug 12, 2019		Soil	S19-Au20125															X			X
6	BH003 0.0-0.1	Aug 12, 2019		Soil	S19-Au20126	X					X			X					X				

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Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
7	BH142 0.0-0.1	Aug 12, 2019		Soil	S19-Au20127	X																	
8	BH142 0.2-0.3	Aug 12, 2019		Soil	S19-Au20128						X			X		X			X				X
9	BH143 0.0-0.1	Aug 12, 2019		Soil	S19-Au20129	X					X			X					X				
10	BH115/MW06 0.0-0.1	Aug 13, 2019		Soil	S19-Au20130	X					X			X		X			X		X		
11	BH115/MW06 0.2-0.3	Aug 13, 2019		Soil	S19-Au20131	X					X			X					X				
12	BH115/MW06 4.8-4.9	Aug 13, 2019		Soil	S19-Au20132															X			X
13	BH135/MW07 0.0-0.1	Aug 13, 2019		Soil	S19-Au20133	X						X		X				X	X				
14	BH135/MW01 0.2-0.3	Aug 13, 2019		Soil	S19-Au20134						X								X				X
15	BH135/MW01	Aug 13, 2019		Soil	S19-Au20135													X		X			

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Sample Detail		Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271				X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217		X	X									X					X		
Brisbane Laboratory - NATA Site # 20794														X	X	X			X
Perth Laboratory - NATA Site # 23736																			
	1.7-1.8																		
16	TS	Aug 13, 2019									X								
17	TB	Aug 13, 2019									X								
18	RIN01	Aug 13, 2019					X			X									
19	RIN02	Aug 13, 2019					X			X									
20	QC01	Aug 13, 2019					X			X	X	X	X	X			X		
21	TP08_0.0-0.1	Aug 13, 2019	X				X			X				X					
22	TP08_2.9-3.0	Aug 13, 2019						X				X	X	X			X		
23	TP08_3.9-4.0	Aug 13, 2019					X			X	X	X	X	X					
24	TP20_0.0-0.1	Aug 13, 2019	X																
25	TP20_0.9-1.0	Aug 13, 2019					X	X				X	X	X			X		
26	TP20_3.4-3.5	Aug 13, 2019					X			X				X					

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Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
27	TP07_0.0-0.1	Aug 13, 2019		Soil	S19-Au20147	X					X						X	X		X			
28	TP07_1.4-1.5	Aug 13, 2019		Soil	S19-Au20148		X		X										X			X	
29	TP07_2.4-2.5	Aug 13, 2019		Soil	S19-Au20149					X			X					X					
30	TP06_0.0-0.1	Aug 13, 2019		Soil	S19-Au20150	X																	
31	TP06_0.4-0.5	Aug 13, 2019		Soil	S19-Au20151					X			X				X	X		X			
32	TP06_2.4-2.5	Aug 13, 2019		Soil	S19-Au20152					X			X		X			X					
33	TP08_FRAG01	Aug 13, 2019		Building Materials	S19-Au20153		X																
34	TP51_0.0-0.1	Aug 12, 2019		Soil	S19-Au20154	X				X			X					X					
35	TP141_0.0-0.1	Aug 12, 2019		Soil	S19-Au20155	X					X		X					X					
36	TP141_0.9-1.0	Aug 12, 2019		Soil	S19-Au20156					X							X	X		X			
37	TP63_0.4-0.5	Aug 12, 2019		Soil	S19-Au20157	X				X			X					X					

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
38	TP140_0.0-0.1	Aug 12, 2019						X	X		X			X		X		X		
39	TP64_0.0-0.1	Aug 12, 2019						X			X			X		X		X		
40	TP139_0.0-0.1	Aug 12, 2019						X		X	X					X				
41	TP138_0.0-0.1	Aug 12, 2019						X			X					X				
42	TP137_0.0-0.1	Aug 12, 2019						X			X					X				
43	TP137_0.4-0.5	Aug 12, 2019											X	X		X		X		
44	TP53_0.0-0.1	Aug 12, 2019						X												
45	TP53_0.9-1.0	Aug 12, 2019									X			X		X		X		
46	TP52_0.0-0.5	Aug 12, 2019						X	X		X			X		X		X		
47	TP33_0.0-0.1	Aug 12, 2019						X												
48	TP33_0.9-1.0	Aug 12, 2019						X			X		X	X		X		X		
49	TP43_0.0-0.1	Aug 12, 2019						X			X					X				

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
50	TP44_0.0-0.1	Aug 12, 2019						X			X		X			X				
51	TP44_0.4-0.5	Aug 12, 2019												X		X		X		
52	TP45_0.0-0.1	Aug 12, 2019						X	X		X					X				
53	TP46_0.0-0.1	Aug 12, 2019						X												
54	TP46_0.4-0.5	Aug 12, 2019						X		X	X			X		X		X		
55	TP47_0.0-0.1	Aug 12, 2019						X			X					X				
56	QC02	Aug 12, 2019						X			X		X	X		X		X		
57	TP48_0.0-0.1	Aug 12, 2019						X			X			X		X		X		
58	TP49_0.0-0.1	Aug 12, 2019						X												
59	TP49_0.4-0.5	Aug 12, 2019							X	X	X					X				
60	TP50_0.0-0.1	Aug 12, 2019						X		X	X			X		X		X		
61	TP60_0.0-0.1	Aug 12, 2019						X			X			X		X		X		

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
62	TP61_0.0-0.1	Aug 12, 2019						X			X					X				
63	TP61_0.4-0.5	Aug 12, 2019											X	X		X		X		
64	TP62_0.0-0.1	Aug 12, 2019						X			X					X				
65	BH001/MW01 0.4-0.5	Aug 12, 2019																		
66	BH001/MW01 0.9-1.0	Aug 12, 2019																		
67	BH002/MW02 0.4-0.5	Aug 12, 2019																		
68	BH002/MW02 0.9-1.0	Aug 12, 2019																		
69	BH003 0.2-0.3	Aug 12, 2019																		
70	BH003 0.4-0.5	Aug 12, 2019																		

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671221	Due: Aug 21, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
71	BH142 0.4-0.5	Aug 12, 2019				X														
72	BH143 0.2-0.3	Aug 12, 2019				X														
73	BH143 0.4-0.5	Aug 12, 2019				X														
74	BH115/MW06 0.4-0.5	Aug 13, 2019				X														
75	BH115/MW06 0.9-1.0	Aug 13, 2019				X														
76	BH135/MW07 0.4-0.5	Aug 13, 2019				X														
77	TP08_0.4-0.5	Aug 13, 2019				X														
78	TP08_0.9-1.0	Aug 13, 2019				X														
79	TP08_1.4-1.5	Aug 13, 2019				X														
80	TP08_1.9-2.0	Aug 13, 2019				X														

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
81	TP08_2.4-2.5	Aug 13, 2019				X														
82	TP08_3.4-3.5	Aug 13, 2019				X														
83	TP20_0.4-0.5	Aug 13, 2019				X														
84	TP20_1.4-1.5	Aug 13, 2019				X														
85	TP20_1.9-2.0	Aug 13, 2019				X														
86	TP20_2.4-2.5	Aug 13, 2019				X														
87	TP20_2.9-3.0	Aug 13, 2019				X														
88	TP07_0.4-0.5	Aug 13, 2019				X														
89	TP07_1.9-2.0	Aug 13, 2019				X														
90	TP07_2.9-3.0	Aug 13, 2019				X														
91	TP07_3.4-3.5	Aug 13, 2019				X														
92	TP07_3.8-3.9	Aug 13, 2019				X														

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
93	TP06_0.9-1.0	Aug 13, 2019				X														
94	TP06_1.4-1.5	Aug 13, 2019				X														
95	TP06_1.9-2.0	Aug 13, 2019				X														
96	TP06_2.9-3.0	Aug 13, 2019				X														
97	TP06_3.2-3.3	Aug 13, 2019				X														
98	TP51_0.6-0.7	Aug 12, 2019				X														
99	TP141_1.6-1.7	Aug 12, 2019				X														
100	TP63_1.3-1.4	Aug 12, 2019				X														
101	TP63_2.2-2.3	Aug 12, 2019				X														
102	TP140_0.9-1.0	Aug 12, 2019				X														
103	TP64_0.3-0.4	Aug 12, 2019				X														
104	TP64_0.6-0.7	Aug 12, 2019				X														

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671221	Due:	Aug 21, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
105	TP139_0.9-1.0	Aug 12, 2019																		
106	TP139_1.2-1.3	Aug 12, 2019																		
107	TP139_2.1-2.2	Aug 12, 2019																		
108	TP138_0.15-0.25	Aug 12, 2019																		
109	TP138_0.5-0.6	Aug 12, 2019																		
110	TP137_0.55-0.65	Aug 12, 2019																		
111	TP53_1.9-2.0	Aug 12, 2019																		
112	TP53_2.5-2.6	Aug 12, 2019																		
113	TP52_1.5-2.0	Aug 12, 2019																		
114	TP52_3.5-3.6	Aug 12, 2019																		
115	TP52_4.1-4.2	Aug 12, 2019																		

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
116	TP33_0.4-0.5	Aug 12, 2019																		
117	TP33_1.4-1.5	Aug 12, 2019																		
118	TP33_1.9-2.0	Aug 12, 2019																		
119	TP33_2.4-2.5	Aug 12, 2019																		
120	TP33_2.9-3.0	Aug 12, 2019																		
121	TP43_0.4-0.5	Aug 12, 2019																		
122	TP43_0.5-0.6	Aug 12, 2019																		
123	TP44_0.9-1.0	Aug 12, 2019																		
124	TP44_1.4-1.5	Aug 12, 2019																		
125	TP44_1.9-2.0	Aug 12, 2019																		
126	TP44_2.3-2.4	Aug 12, 2019																		
127	TP45_0.4-0.5	Aug 12, 2019																		

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
128	TP45_0.9-1.0	Aug 12, 2019				X														
129	TP46_1.0-1.1	Aug 12, 2019				X														
130	TP47_0.4-0.5	Aug 12, 2019				X														
131	TP47_1.0-1.1	Aug 12, 2019				X														
132	TP48_0.4-0.5	Aug 12, 2019				X														
133	TP48_0.9-1.0	Aug 12, 2019				X														
134	TP49_0.9-1.0	Aug 12, 2019				X														
135	TP49_1.4-1.5	Aug 12, 2019				X														
136	TP49_1.9-2.0	Aug 12, 2019				X														
137	TP50_0.4-0.5	Aug 12, 2019				X														
138	TP50_0.6-0.7	Aug 12, 2019				X														
139	TP60_0.4-0.5	Aug 12, 2019				X														

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 14, 2019 9:00 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671221	Due:	Aug 21, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
140	TP60_0.9-1.0	Aug 12, 2019				X														
141	TP62_0.4-0.5	Aug 12, 2019				X														
142	TP07_0.9-1.0	Aug 12, 2019				X														
Test Counts			35	1	1	78	1	40	8	4	40	2	12	22	2	51	51	22	1	4

Internal Quality Control Review and Glossary
General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S19-Au20126, S19-Au20127, S19-Au20129, S19-Au20130, S19-Au20133, S19-Au20170, S19-Au20172, S19-Au20176, S19-Au20177: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos (NSW)

Authorised by:

Sayed Abu Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217 & 14271

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: **Ryan Lill**

Report **671221-S**
 Project name **CENTRAL COAST DSI**
 Project ID **56387**
 Received Date **Aug 14, 2019**

Client Sample ID			BH001/MW01 0.0-0.1	BH001/MW01 0.2-0.3	BH002/MW02 0.2-0.3	BH002/MW02 6.0-6.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20121	S19-Au20122	S19-Au20124	S19-Au20125
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	110	< 50	-
TRH C29-C36	50	mg/kg	-	130	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	240	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			BH001/MW01 0.0-0.1	BH001/MW01 0.2-0.3	BH002/MW02 0.2-0.3	BH002/MW02 6.0-6.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20121	S19-Au20122	S19-Au20124	S19-Au20125
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	82	70	-
Toluene-d8 (surr.)	1	%	-	83	66	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	190	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	190	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	30	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	30	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	30	-	1.2	-
Acenaphthene	0.5	mg/kg	1.9	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	3.3	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	17	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	18	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	14	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	22	-	< 0.5	-

Client Sample ID			BH001/MW01 0.0-0.1	BH001/MW01 0.2-0.3	BH002/MW02 0.2-0.3	BH002/MW02 6.0-6.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20121	S19-Au20122	S19-Au20124	S19-Au20125
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	18	-	< 0.5	-
Chrysene	0.5	mg/kg	23	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	5.7	-	< 0.5	-
Fluoranthene	0.5	mg/kg	51	-	< 0.5	-
Fluorene	0.5	mg/kg	0.8	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	13	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	9.2	-	< 0.5	-
Pyrene	0.5	mg/kg	48	-	< 0.5	-
Total PAH*	0.5	mg/kg	244.9	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	66	-	113	-
p-Terphenyl-d14 (surr.)	1	%	80	-	73	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	117	144	-
Tetrachloro-m-xylene (surr.)	1	%	-	116	112	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-

Client Sample ID			BH001/MW01 0.0-0.1	BH001/MW01 0.2-0.3	BH002/MW02 0.2-0.3	BH002/MW02 6.0-6.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20121	S19-Au20122	S19-Au20124	S19-Au20125
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchloroendate (surr.)	1	%	-	117	144	-
Tetrachloro-m-xylene (surr.)	1	%	-	116	112	-
Heavy Metals						
Arsenic	2	mg/kg	2.5	-	< 2	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	17	-	< 5	-
Copper	5	mg/kg	9.5	-	< 5	-
Lead	5	mg/kg	9.2	-	< 5	-
Mercury	0.1	mg/kg	< 0.1	-	2.1	-
Nickel	5	mg/kg	11	-	< 5	-
Zinc	5	mg/kg	19	-	< 5	-
% Moisture						
% Moisture	1	%	6.7	8.3	18	15
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	69
13C5-PFPeA (surr.)	1	%	-	-	-	98
13C5-PFHxA (surr.)	1	%	-	-	-	66
13C4-PFHpA (surr.)	1	%	-	-	-	73
13C8-PFOA (surr.)	1	%	-	-	-	75
13C5-PFNA (surr.)	1	%	-	-	-	99
13C6-PFDA (surr.)	1	%	-	-	-	141
13C2-PFUnDA (surr.)	1	%	-	-	-	141
13C2-PFDoDA (surr.)	1	%	-	-	-	134
13C2-PFTeDA (surr.)	1	%	-	-	-	124
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	91
D3-N-MeFOSA (surr.)	1	%	-	-	-	111

Client Sample ID			BH001/MW01 0.0-0.1	BH001/MW01 0.2-0.3	BH002/MW02 0.2-0.3	BH002/MW02 6.0-6.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20121	S19-Au20122	S19-Au20124	S19-Au20125
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	-	-	-	145
D7-N-MeFOSE (surr.)	1	%	-	-	-	63
D9-N-EtFOSE (surr.)	1	%	-	-	-	77
D5-N-EtFOSAA (surr.)	1	%	-	-	-	106
D3-N-MeFOSAA (surr.)	1	%	-	-	-	114
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	95
18O2-PFHxS (surr.)	1	%	-	-	-	113
13C8-PFOS (surr.)	1	%	-	-	-	87
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	60
13C2-6:2 FTSA (surr.)	1	%	-	-	-	56
13C2-8:2 FTSA (surr.)	1	%	-	-	-	139
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			BH003 0.0-0.1	BH142 0.2-0.3	BH143 0.0-0.1	BH115/MW06 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20126	S19-Au20128	S19-Au20129	S19-Au20130
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50

Client Sample ID			BH003 0.0-0.1 Soil S19-Au20126 Aug 12, 2019	BH142 0.2-0.3 Soil S19-Au20128 Aug 12, 2019	BH143 0.0-0.1 Soil S19-Au20129 Aug 12, 2019	BH115/MW06 0.0-0.1 Soil S19-Au20130 Aug 13, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	0.3
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	0.5
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	0.2
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH003 0.0-0.1	BH142 0.2-0.3	BH143 0.0-0.1	BH115/MW06 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20126	S19-Au20128	S19-Au20129	S19-Au20130
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	0.7
Total MAH*	0.5	mg/kg	-	-	-	1
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	74
Toluene-d8 (surr.)	1	%	-	-	-	71
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	111	70	96
p-Terphenyl-d14 (surr.)	1	%	144	71	106	125
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			BH003 0.0-0.1	BH142 0.2-0.3	BH143 0.0-0.1	BH115/MW06 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20126	S19-Au20128	S19-Au20129	S19-Au20130
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	121	-	109
Tetrachloro-m-xylene (surr.)	1	%	-	112	-	81
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	121	-	109
Tetrachloro-m-xylene (surr.)	1	%	-	112	-	81
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	5.3	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.5	6.4	32	< 5
Copper	5	mg/kg	5.5	< 5	< 5	< 5
Lead	5	mg/kg	5.4	< 5	< 5	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.5	< 5	< 5	< 5
Zinc	5	mg/kg	17	< 5	6.4	18
% Moisture						
% Moisture	1	%	7.4	12	8.7	15
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	-	-

Client Sample ID			BH003 0.0-0.1	BH142 0.2-0.3	BH143 0.0-0.1	BH115/MW06 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20126	S19-Au20128	S19-Au20129	S19-Au20130
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	69	-	-
13C5-PFPeA (surr.)	1	%	-	70	-	-
13C5-PFHxA (surr.)	1	%	-	70	-	-
13C4-PFHpA (surr.)	1	%	-	75	-	-
13C8-PFOA (surr.)	1	%	-	79	-	-
13C5-PFNA (surr.)	1	%	-	93	-	-
13C6-PFDA (surr.)	1	%	-	110	-	-
13C2-PFUnDA (surr.)	1	%	-	149	-	-
13C2-PFDoDA (surr.)	1	%	-	131	-	-
13C2-PFTeDA (surr.)	1	%	-	113	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	95	-	-
D3-N-MeFOSA (surr.)	1	%	-	112	-	-
D5-N-EtFOSA (surr.)	1	%	-	155	-	-
D7-N-MeFOSE (surr.)	1	%	-	61	-	-
D9-N-EtFOSE (surr.)	1	%	-	84	-	-
D5-N-EtFOSAA (surr.)	1	%	-	84	-	-
D3-N-MeFOSAA (surr.)	1	%	-	87	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	93	-	-
18O2-PFHxS (surr.)	1	%	-	104	-	-
13C8-PFOS (surr.)	1	%	-	71	-	-

Client Sample ID			BH003 0.0-0.1	BH142 0.2-0.3	BH143 0.0-0.1	BH115/MW06 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20126	S19-Au20128	S19-Au20129	S19-Au20130
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	73	-	-
13C2-6:2 FTSA (surr.)	1	%	-	58	-	-
13C2-8:2 FTSA (surr.)	1	%	-	161	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			BH115/MW06 0.2-0.3	BH115/MW06 4.8-4.9	BH135/MW07 0.0-0.1	BH135/MW01 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20131	S19-Au20132	S19-Au20133	S19-Au20134
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	83	-	-	91
p-Terphenyl-d14 (surr.)	1	%	77	-	-	110

Client Sample ID			BH115/MW06 0.2-0.3	BH115/MW06 4.8-4.9	BH135/MW07 0.0-0.1	BH135/MW01 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20131	S19-Au20132	S19-Au20133	S19-Au20134
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	72	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	93	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	< 2	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	< 5	-	< 5	-
Copper	5	mg/kg	< 5	-	< 5	-
Lead	5	mg/kg	7.4	-	5.4	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	< 5	-	< 5	-
Zinc	5	mg/kg	8.8	-	< 5	-
SPOCAS Suite						
pH-KCL	0.1	pH Units	-	-	5.0	-
pH-OX	0.1	pH Units	-	-	3.7	-
Acid trail - Titratable Actual Acidity	2	mol H+/t	-	-	15	-
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	-	-	18	-
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	-	-	4.0	-
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	-	-	0.020	-
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	-	-	0.03	-
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	-	-	< 0.02	-
Sulfur - KCl Extractable	0.02	% S	-	-	< 0.02	-
Sulfur - Peroxide	0.02	% S	-	-	< 0.02	-
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	-	-	< 0.02	-
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	-	-	< 10	-

Client Sample ID			BH115/MW06 0.2-0.3	BH115/MW06 4.8-4.9	BH135/MW07 0.0-0.1	BH135/MW01 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20131	S19-Au20132	S19-Au20133	S19-Au20134
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
SPOCAS Suite						
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	-
HCl Extractable Sulfur	0.02	% S	-	-	n/a	-
Net Acid soluble sulfur	0.02	% S	-	-	n/a	-
Net Acid soluble sulfur - acidity units	10	mol H+/t	-	-	n/a	-
Net Acid soluble sulfur - equivalent S% pyrite ^{S02}	0.02	% S	-	-	n/a	-
Calcium - KCl Extractable	0.02	% Ca	-	-	< 0.02	-
Calcium - Peroxide	0.02	% Ca	-	-	< 0.02	-
Acid Reacted Calcium	0.02	% Ca	-	-	< 0.02	-
acidity - Acid Reacted Calcium	10	mol H+/t	-	-	< 10	-
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	-	-	< 0.02	-
Magnesium - KCl Extractable	0.02	% Mg	-	-	< 0.02	-
Magnesium - Peroxide	0.02	% Mg	-	-	< 0.02	-
Acid Reacted Magnesium	0.02	% Mg	-	-	< 0.02	-
acidity - Acid Reacted Magnesium	10	mol H+/t	-	-	< 10	-
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	-	-	< 0.02	-
Acid Neutralising Capacity (ANCE)	0.02	% CaCO ₃	-	-	n/a	-
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	-	-	n/a	-
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	-	-	n/a	-
ANC Fineness Factor		factor	-	-	1.5	-
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	-	-	0.02	-
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	-	-	15	-
SPOCAS - Liming rate	1	kg CaCO ₃ /t	-	-	1.0	-
Extraneous Material						
<2mm Fraction	0.005	g	-	-	130	-
>2mm Fraction	0.005	g	-	-	1.5	-
Analysed Material	0.1	%	-	-	99	-
Extraneous Material	0.1	%	-	-	1.2	-
% Moisture						
% Moisture	1	%	11	23	9.4	7.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	-	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	-	< 5
13C4-PFBA (surr.)	1	%	-	79	-	84
13C5-PFPeA (surr.)	1	%	-	102	-	100
13C5-PFHxA (surr.)	1	%	-	80	-	85
13C4-PFHpA (surr.)	1	%	-	88	-	94
13C8-PFOA (surr.)	1	%	-	87	-	94
13C5-PFNA (surr.)	1	%	-	98	-	115
13C6-PFDA (surr.)	1	%	-	129	-	142

Client Sample ID			BH115/MW06 0.2-0.3	BH115/MW06 4.8-4.9	BH135/MW07 0.0-0.1	BH135/MW01 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20131	S19-Au20132	S19-Au20133	S19-Au20134
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFUnDA (surr.)	1	%	-	148	-	153
13C2-PFDoDA (surr.)	1	%	-	129	-	137
13C2-PFTeDA (surr.)	1	%	-	120	-	126
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	-	< 10
13C8-FOSA (surr.)	1	%	-	99	-	92
D3-N-MeFOSA (surr.)	1	%	-	111	-	115
D5-N-EtFOSA (surr.)	1	%	-	134	-	143
D7-N-MeFOSE (surr.)	1	%	-	73	-	60
D9-N-EtFOSE (surr.)	1	%	-	80	-	84
D5-N-EtFOSAA (surr.)	1	%	-	110	-	113
D3-N-MeFOSAA (surr.)	1	%	-	132	-	142
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	< 5	-	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	-	< 5
13C3-PFBS (surr.)	1	%	-	94	-	101
18O2-PFHxS (surr.)	1	%	-	107	-	105
13C8-PFOS (surr.)	1	%	-	88	-	83
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	71	-	115
13C2-6:2 FTSA (surr.)	1	%	-	84	-	119
13C2-8:2 FTSA (surr.)	1	%	-	175	-	189

Client Sample ID			BH115/MW06 0.2-0.3	BH115/MW06 4.8-4.9	BH135/MW07 0.0-0.1	BH135/MW01 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20131	S19-Au20132	S19-Au20133	S19-Au20134
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	< 50

Client Sample ID			BH135/MW01 1.7-1.8	QC01	TP08_0.0-0.1	TP08_2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20135	S19-Au20140	S19-Au20141	S19-Au20142
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			BH135/MW01 1.7-1.8	QC01	TP08_0.0-0.1	TP08_2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20135	S19-Au20140	S19-Au20141	S19-Au20142
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	76	-	84
Toluene-d8 (surr.)	1	%	-	73	-	80
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			BH135/MW01 1.7-1.8	QC01	TP08_0.0-0.1	TP08_2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20135	S19-Au20140	S19-Au20141	S19-Au20142
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	118	92	-
p-Terphenyl-d14 (surr.)	1	%	-	146	100	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	135	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	115	-	86
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			BH135/MW01 1.7-1.8	QC01	TP08_0.0-0.1	TP08_2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20135	S19-Au20140	S19-Au20141	S19-Au20142
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchlorendate (surr.)	1	%	-	135	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	115	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	5.0	5.4	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	43	29	-
Copper	5	mg/kg	-	20	12	-
Lead	5	mg/kg	-	10.0	7.0	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	36	20	-
Zinc	5	mg/kg	-	35	44	-
SPOCAS Suite						
pH-KCL	0.1	pH Units	4.6	-	-	-
pH-OX	0.1	pH Units	4.5	-	-	-
Acid trail - Titratable Actual Acidity	2	mol H+/t	36	-	-	-
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	45	-	-	-
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	10	-	-	-
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	0.060	-	-	-
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	0.07	-	-	-
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	0.02	-	-	-
Sulfur - KCl Extractable	0.02	% S	< 0.02	-	-	-
Sulfur - Peroxide	0.02	% S	< 0.02	-	-	-
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	< 0.02	-	-	-
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	< 10	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
HCl Extractable Sulfur	0.02	% S	n/a	-	-	-
Net Acid soluble sulfur	0.02	% S	n/a	-	-	-
Net Acid soluble sulfur - acidity units	10	mol H+/t	n/a	-	-	-
Net Acid soluble sulfur - equivalent S% pyrite ^{S02}	0.02	% S	n/a	-	-	-
Calcium - KCl Extractable	0.02	% Ca	< 0.02	-	-	-
Calcium - Peroxide	0.02	% Ca	< 0.02	-	-	-
Acid Reacted Calcium	0.02	% Ca	< 0.02	-	-	-
acidity - Acid Reacted Calcium	10	mol H+/t	< 10	-	-	-
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	< 0.02	-	-	-
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	-	-	-
Magnesium - Peroxide	0.02	% Mg	< 0.02	-	-	-
Acid Reacted Magnesium	0.02	% Mg	< 0.02	-	-	-
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10	-	-	-
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02	-	-	-
Acid Neutralising Capacity (ANCE)	0.02	% CaCO ₃	n/a	-	-	-
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	n/a	-	-	-
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	n/a	-	-	-
ANC Fineness Factor		factor	1.5	-	-	-
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	0.06	-	-	-
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	36	-	-	-
SPOCAS - Liming rate	1	kg CaCO ₃ /t	3.0	-	-	-

Client Sample ID			BH135/MW01 1.7-1.8	QC01	TP08_0.0-0.1	TP08_2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20135	S19-Au20140	S19-Au20141	S19-Au20142
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Extraneous Material						
<2mm Fraction	0.005	g	120	-	-	-
>2mm Fraction	0.005	g	1.6	-	-	-
Analysed Material	0.1	%	99	-	-	-
Extraneous Material	0.1	%	1.3	-	-	-
% Moisture						
	1	%	12	11	12	9.1

Client Sample ID			TP08_3.9-4.0	TP20_0.9-1.0	TP20_3.4-3.5	TP07_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20143	S19-Au20145	S19-Au20146	S19-Au20147
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	140
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	140
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP08_3.9-4.0	TP20_0.9-1.0	TP20_3.4-3.5	TP07_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20143	S19-Au20145	S19-Au20146	S19-Au20147
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	76	-	69
Toluene-d8 (surr.)	1	%	-	73	-	64
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	150
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	150
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			TP08_3.9-4.0	TP20_0.9-1.0	TP20_3.4-3.5	TP07_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20143	S19-Au20145	S19-Au20146	S19-Au20147
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	105	117	82	-
p-Terphenyl-d14 (surr.)	1	%	79	93	83	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	75	98	-	130
Tetrachloro-m-xylene (surr.)	1	%	91	100	-	107
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-

Client Sample ID			TP08_3.9-4.0	TP20_0.9-1.0	TP20_3.4-3.5	TP07_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20143	S19-Au20145	S19-Au20146	S19-Au20147
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	91	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	13	-	< 2	-
Cadmium	0.4	mg/kg	2.2	-	< 0.4	-
Chromium	5	mg/kg	26	-	9.0	-
Copper	5	mg/kg	8.3	-	< 5	-
Lead	5	mg/kg	31	-	5.4	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	< 5	-	< 5	-
Zinc	5	mg/kg	380	-	< 5	-
% Moisture	1	%	18	8.8	15	13

Client Sample ID			TP07_1.4-1.5	TP07_2.4-2.5	TP06_0.4-0.5	TP06_2.4-2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20148	S19-Au20149	S19-Au20151	S19-Au20152
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP07_1.4-1.5 Soil	TP07_2.4-2.5 Soil	TP06_0.4-0.5 Soil	TP06_2.4-2.5 Soil
Sample Matrix			S19-Au20148	S19-Au20149	S19-Au20151	S19-Au20152
Eurofins Sample No.			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	74	-
Toluene-d8 (surr.)	1	%	-	-	71	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-

Client Sample ID			TP07_1.4-1.5	TP07_2.4-2.5	TP06_0.4-0.5	TP06_2.4-2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20148	S19-Au20149	S19-Au20151	S19-Au20152
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	99	80	118
p-Terphenyl-d14 (surr.)	1	%	-	107	81	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	120
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	98

Client Sample ID			TP07_1.4-1.5	TP07_2.4-2.5	TP06_0.4-0.5	TP06_2.4-2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20148	S19-Au20149	S19-Au20151	S19-Au20152
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	120
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	98
Heavy Metals						
Arsenic	2	mg/kg	-	7.4	< 2	< 2
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	8.1	6.8	6.4
Copper	5	mg/kg	-	6.1	6.5	< 5
Lead	5	mg/kg	-	11	13	< 5
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	< 5	< 5
Zinc	5	mg/kg	-	26	30	< 5
Pathogens						
E.coli	1	MPN/g	< 10	-	-	-
Salmonella	1		Not detected	-	-	-
Salmonella Volume/Mass Tested		g	25	-	-	-
Thermotolerant Coliforms	1	MPN/g	M ¹⁰ < 10	-	-	-
% Moisture	1	%	7.5	22	13	13

Client Sample ID			TP51_0.0-0.1	TP141_0.0-0.1	TP141_0.9-1.0	TP63_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20154	S19-Au20155	S19-Au20156	S19-Au20157
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP51_0.0-0.1	TP141_0.0-0.1	TP141_0.9-1.0	TP63_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20154	S19-Au20155	S19-Au20156	S19-Au20157
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1,2,3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1,2,4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1,3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1,3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1,3,5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1,4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1,2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1,3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1,2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1,3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	82	-
Toluene-d8 (surr.)	1	%	-	-	76	-

Client Sample ID			TP51_0.0-0.1	TP141_0.0-0.1	TP141_0.9-1.0	TP63_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20154	S19-Au20155	S19-Au20156	S19-Au20157
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	-	89	92
p-Terphenyl-d14 (surr.)	1	%	111	-	107	142
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			TP51_0.0-0.1	TP141_0.0-0.1	TP141_0.9-1.0	TP63_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20154	S19-Au20155	S19-Au20156	S19-Au20157
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	59	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	74	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.0	-	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	11	8.5	-	15
Copper	5	mg/kg	16	< 5	-	< 5
Lead	5	mg/kg	8.8	< 5	-	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	27	< 5	-	5.3
Zinc	5	mg/kg	33	13	-	11
% Moisture	1	%	2.0	11	11	12

Client Sample ID			TP140_0.0-0.1	TP64_0.0-0.1	TP139_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20158	S19-Au20159	S19-Au20160	S19-Au20161
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			TP140_0.0-0.1	TP64_0.0-0.1	TP139_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20158	S19-Au20159	S19-Au20160	S19-Au20161
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,3,5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	76	78	-	-
Toluene-d8 (surr.)	1	%	73	71	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-

Client Sample ID			TP140_0.0-0.1	TP64_0.0-0.1	TP139_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20158	S19-Au20159	S19-Au20160	S19-Au20161
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	100	112	89
p-Terphenyl-d14 (surr.)	1	%	123	89	94	88
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-

Client Sample ID			TP140_0.0-0.1	TP64_0.0-0.1	TP139_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20158	S19-Au20159	S19-Au20160	S19-Au20161
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	64	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	86	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	111	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	86	-
Heavy Metals						
Arsenic	2	mg/kg	2.6	< 2	10	32
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	< 5	16	30
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	17	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	6.7	< 5	6.1	< 5
% Moisture	1	%	12	19	13	4.4

Client Sample ID			TP137_0.0-0.1	TP137_0.4-0.5	TP53_0.9-1.0	G01TP52_0.0-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20162	S19-Au20163	S19-Au20165	S19-Au20166
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 100
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5

Client Sample ID			TP137_0.0-0.1	TP137_0.4-0.5	TP53_0.9-1.0	G01 TP52_0.0-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20162	S19-Au20163	S19-Au20165	S19-Au20166
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,2,3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,2,4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,3,5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
1,4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.5
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
cis-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
cis-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.5
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 1
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.5
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.5
trans-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
trans-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	< 1.5
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5

Client Sample ID			TP137_0.0-0.1	TP137_0.4-0.5	TP53_0.9-1.0	G01 TP52_0.0-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20162	S19-Au20163	S19-Au20165	S19-Au20166
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	-	83	73	82
Toluene-d8 (surr.)	1	%	-	81	57	76
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 2.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 100
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 100
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	103	-	-	101
p-Terphenyl-d14 (surr.)	1	%	109	-	-	128
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			TP137_0.0-0.1	TP137_0.4-0.5	TP53_0.9-1.0	G01:TP52_0.0-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20162	S19-Au20163	S19-Au20165	S19-Au20166
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	97	-	121
Tetrachloro-m-xylene (surr.)	1	%	-	86	-	102
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	86	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	3.1	5.3
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	7.6	14
Copper	5	mg/kg	< 5	-	< 5	< 5
Lead	5	mg/kg	6.3	-	< 5	9.6
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	16	-	11	11
% Moisture	1	%	1.9	4.7	12	9.9

Client Sample ID			TP33_0.9-1.0	TP43_0.0-0.1	TP44_0.0-0.1	TP44_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20168	S19-Au20169	S19-Au20170	S19-Au20171
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50

Client Sample ID			TP33_0.9-1.0	TP43_0.0-0.1	TP44_0.0-0.1	TP44_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20168	S19-Au20169	S19-Au20170	S19-Au20171
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			TP33_0.9-1.0	TP43_0.0-0.1	TP44_0.0-0.1	TP44_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20168	S19-Au20169	S19-Au20170	S19-Au20171
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	76	-	-	75
Toluene-d8 (surr.)	1	%	71	-	-	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.3	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.5	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.8	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	1.1	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	1.7	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	1.1	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	2.1	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	1.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	1.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	3.3	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.9	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	1.9	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	3.3	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	19.4	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	87	85	102	-
p-Terphenyl-d14 (surr.)	1	%	131	88	90	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID			TP33_0.9-1.0	TP43_0.0-0.1	TP44_0.0-0.1	TP44_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20168	S19-Au20169	S19-Au20170	S19-Au20171
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	58	-	77	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	93	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	58	-	77	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	93	-
Heavy Metals						
Arsenic	2	mg/kg	2.3	6.0	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	7.4	9.6	< 5	-
Copper	5	mg/kg	< 5	< 5	< 5	-
Lead	5	mg/kg	15	10	11	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	-
Nickel	5	mg/kg	< 5	< 5	< 5	-
Zinc	5	mg/kg	16	12	15	-
% Moisture	1	%	10	5.3	13	10

Client Sample ID			TP45_0.0-0.1	TP46_0.4-0.5	TP47_0.0-0.1	QC02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20172	S19-Au20174	S19-Au20175	S19-Au20176
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP45_0.0-0.1	TP46_0.4-0.5	TP47_0.0-0.1	QC02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20172	S19-Au20174	S19-Au20175	S19-Au20176
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	71	-	75
Toluene-d8 (surr.)	1	%	-	70	-	72
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	140	122	55	123
p-Terphenyl-d14 (surr.)	1	%	138	97	71	114

Client Sample ID			TP45_0.0-0.1	TP46_0.4-0.5	TP47_0.0-0.1	QC02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20172	S19-Au20174	S19-Au20175	S19-Au20176
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	133	-	-	108
Tetrachloro-m-xylene (surr.)	1	%	120	-	-	100
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	96	-	108
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	100
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.3	5.1	6.6
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	9.2	9.1	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	21	28	18
% Moisture	1	%	9.1	19	11	13

Client Sample ID			TP48_0.0-0.1	TP49_0.4-0.5	TP50_0.0-0.1	TP60_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20177	S19-Au20179	S19-Au20180	S19-Au20181
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			TP48_0.0-0.1	TP49_0.4-0.5	TP50_0.0-0.1	TP60_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20177	S19-Au20179	S19-Au20180	S19-Au20181
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	67	-	77	79
Toluene-d8 (surr.)	1	%	50	-	61	63
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	125	126	150
p-Terphenyl-d14 (surr.)	1	%	93	117	103	144

Client Sample ID			TP48_0.0-0.1	TP49_0.4-0.5	TP50_0.0-0.1	TP60_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au20177	S19-Au20179	S19-Au20180	S19-Au20181
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	122	115	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	103	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	8.0	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.3	11	< 5
Copper	5	mg/kg	< 5	7.9	9.3	< 5
Lead	5	mg/kg	< 5	10	5.1	5.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	13	< 5
Zinc	5	mg/kg	< 5	59	22	< 5
% Moisture	1	%	18	11	2.5	7.9

Client Sample ID			TP61_0.0-0.1	TP61_0.4-0.5	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au20182	S19-Au20183	S19-Au20184
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	-	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-

Client Sample ID			TP61_0.0-0.1	TP61_0.4-0.5	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au20182	S19-Au20183	S19-Au20184
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit			
Volatile Organics					
1,3,5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-
1,4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	-
cis-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	-
cis-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	-
trans-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	-
trans-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	72	-
Toluene-d8 (surr.)	1	%	-	59	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	-

Client Sample ID			TP61_0.0-0.1	TP61_0.4-0.5	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au20182	S19-Au20183	S19-Au20184
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	-	99
p-Terphenyl-d14 (surr.)	1	%	67	-	139
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-
Toxaphene	1	mg/kg	-	< 1	-

Client Sample ID			TP61_0.0-0.1	TP61_0.4-0.5	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au20182	S19-Au20183	S19-Au20184
Date Sampled			Aug 12, 2019	Aug 12, 2019	Aug 12, 2019
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-
Dibutylchloredate (surr.)	1	%	-	139	-
Tetrachloro-m-xylene (surr.)	1	%	-	117	-
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	-
Dibutylchloredate (surr.)	1	%	-	139	-
Tetrachloro-m-xylene (surr.)	1	%	-	117	-
Heavy Metals					
Arsenic	2	mg/kg	< 2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	-	< 5
Copper	5	mg/kg	< 5	-	< 5
Lead	5	mg/kg	< 5	-	< 5
Mercury	0.1	mg/kg	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	-	< 5
Zinc	5	mg/kg	5.7	-	< 5
% Moisture					
	1	%	2.2	8.0	13

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 15, 2019	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 15, 2019	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 15, 2019	
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Aug 15, 2019	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 19, 2019	14 Days
Metals M8 - Method:	Melbourne	Aug 19, 2019	180 Days
E.coli - Method: LTM-MIC-6621 E.Coli and Total Coliforms by the MPN	Melbourne	Aug 15, 2019	72 Hour
Salmonella - Method:	Melbourne	Aug 15, 2019	0 Days
Thermotolerant Coliforms - Method: Inhouse: Thermotolerant Coliforms in Soil by MPN*	Melbourne	Aug 15, 2019	72 Hour
Eurofins mgt Suite B13			
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Aug 15, 2019	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Aug 15, 2019	28 Days
SPOCAS Suite			
SPOCAS Suite - Method: LTM-GEN-7050	Brisbane	Aug 15, 2019	6 Week
Extraneous Material - Method: LTM-GEN-7050/7070	Brisbane	Aug 15, 2019	6 Week
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Aug 14, 2019	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 16, 2019	180 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 16, 2019	180 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 16, 2019	180 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 16, 2019	180 Days

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	BH001/MW01 0.0-0.1	Aug 12, 2019		Soil	S19-Au20121	X					X			X					X				
2	BH001/MW01 0.2-0.3	Aug 12, 2019		Soil	S19-Au20122											X	X		X		X		
3	BH002/MW02 0.0-0.1	Aug 12, 2019		Soil	S19-Au20123	X																	
4	BH002/MW02 0.2-0.3	Aug 12, 2019		Soil	S19-Au20124						X			X		X	X		X		X		
5	BH002/MW02 6.0-6.1	Aug 12, 2019		Soil	S19-Au20125														X				X
6	BH003 0.0-0.1	Aug 12, 2019		Soil	S19-Au20126	X					X			X					X				

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
7	BH142 0.0-0.1	Aug 12, 2019		Soil	S19-Au20127	X																	
8	BH142 0.2-0.3	Aug 12, 2019		Soil	S19-Au20128						X			X		X			X				X
9	BH143 0.0-0.1	Aug 12, 2019		Soil	S19-Au20129	X					X			X					X				
10	BH115/MW06 0.0-0.1	Aug 13, 2019		Soil	S19-Au20130	X					X			X		X			X		X		
11	BH115/MW06 0.2-0.3	Aug 13, 2019		Soil	S19-Au20131	X					X			X					X				
12	BH115/MW06 4.8-4.9	Aug 13, 2019		Soil	S19-Au20132															X			X
13	BH135/MW07 0.0-0.1	Aug 13, 2019		Soil	S19-Au20133	X						X		X			X	X					
14	BH135/MW01 0.2-0.3	Aug 13, 2019		Soil	S19-Au20134						X								X				X
15	BH135/MW01	Aug 13, 2019		Soil	S19-Au20135												X		X				

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Sample Detail		Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271				X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217		X	X									X					X		
Brisbane Laboratory - NATA Site # 20794														X	X	X			X
Perth Laboratory - NATA Site # 23736																			
	1.7-1.8																		
16	TS	Aug 13, 2019									X								
17	TB	Aug 13, 2019									X								
18	RIN01	Aug 13, 2019					X			X									
19	RIN02	Aug 13, 2019					X			X									
20	QC01	Aug 13, 2019					X			X	X	X	X	X			X		
21	TP08_0.0-0.1	Aug 13, 2019	X				X			X					X				
22	TP08_2.9-3.0	Aug 13, 2019						X					X	X	X		X		
23	TP08_3.9-4.0	Aug 13, 2019					X			X	X	X	X	X					
24	TP20_0.0-0.1	Aug 13, 2019	X																
25	TP20_0.9-1.0	Aug 13, 2019					X	X				X	X	X			X		
26	TP20_3.4-3.5	Aug 13, 2019					X			X				X					

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Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
27	TP07_0.0-0.1	Aug 13, 2019							X					X		X		X		
28	TP07_1.4-1.5	Aug 13, 2019			X		X									X			X	
29	TP07_2.4-2.5	Aug 13, 2019						X			X					X				
30	TP06_0.0-0.1	Aug 13, 2019																		
31	TP06_0.4-0.5	Aug 13, 2019						X			X			X		X		X		
32	TP06_2.4-2.5	Aug 13, 2019						X			X		X			X				
33	TP08_FRAG01	Aug 13, 2019																		
34	TP51_0.0-0.1	Aug 12, 2019						X			X					X				
35	TP141_0.0-0.1	Aug 12, 2019						X		X	X					X				
36	TP141_0.9-1.0	Aug 12, 2019						X						X		X		X		
37	TP63_0.4-0.5	Aug 12, 2019						X			X					X				

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Sample Detail					Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																	X	X	X			X
Perth Laboratory - NATA Site # 23736																						
38	TP140_0.0-0.1	Aug 12, 2019		Soil	S19-Au20158	X				X	X		X			X		X		X		
39	TP64_0.0-0.1	Aug 12, 2019		Soil	S19-Au20159	X				X			X			X		X		X		
40	TP139_0.0-0.1	Aug 12, 2019		Soil	S19-Au20160	X				X		X	X					X				
41	TP138_0.0-0.1	Aug 12, 2019		Soil	S19-Au20161					X			X					X				
42	TP137_0.0-0.1	Aug 12, 2019		Soil	S19-Au20162	X				X			X					X				
43	TP137_0.4-0.5	Aug 12, 2019		Soil	S19-Au20163										X	X		X		X		
44	TP53_0.0-0.1	Aug 12, 2019		Soil	S19-Au20164	X																
45	TP53_0.9-1.0	Aug 12, 2019		Soil	S19-Au20165								X			X		X		X		
46	TP52_0.0-0.5	Aug 12, 2019		Soil	S19-Au20166	X				X	X		X			X		X		X		
47	TP33_0.0-0.1	Aug 12, 2019		Soil	S19-Au20167	X																
48	TP33_0.9-1.0	Aug 12, 2019		Soil	S19-Au20168	X				X			X		X	X		X		X		
49	TP43_0.0-0.1	Aug 12, 2019		Soil	S19-Au20169	X				X			X					X				

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Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
50	TP44_0.0-0.1	Aug 12, 2019						X			X		X			X				
51	TP44_0.4-0.5	Aug 12, 2019												X		X		X		
52	TP45_0.0-0.1	Aug 12, 2019						X	X		X					X				
53	TP46_0.0-0.1	Aug 12, 2019						X												
54	TP46_0.4-0.5	Aug 12, 2019						X		X	X			X		X		X		
55	TP47_0.0-0.1	Aug 12, 2019						X			X					X				
56	QC02	Aug 12, 2019						X			X		X	X		X		X		
57	TP48_0.0-0.1	Aug 12, 2019						X			X			X		X		X		
58	TP49_0.0-0.1	Aug 12, 2019						X												
59	TP49_0.4-0.5	Aug 12, 2019						X		X	X					X				
60	TP50_0.0-0.1	Aug 12, 2019						X		X	X			X		X		X		
61	TP60_0.0-0.1	Aug 12, 2019						X			X			X		X		X		

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
62	TP61_0.0-0.1	Aug 12, 2019						X			X					X				
63	TP61_0.4-0.5	Aug 12, 2019											X	X		X		X		
64	TP62_0.0-0.1	Aug 12, 2019						X			X					X				
65	BH001/MW01 0.4-0.5	Aug 12, 2019																		
66	BH001/MW01 0.9-1.0	Aug 12, 2019																		
67	BH002/MW02 0.4-0.5	Aug 12, 2019																		
68	BH002/MW02 0.9-1.0	Aug 12, 2019																		
69	BH003 0.2-0.3	Aug 12, 2019																		
70	BH003 0.4-0.5	Aug 12, 2019																		

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
71	BH142 0.4-0.5	Aug 12, 2019				X														
72	BH143 0.2-0.3	Aug 12, 2019				X														
73	BH143 0.4-0.5	Aug 12, 2019				X														
74	BH115/MW06 0.4-0.5	Aug 13, 2019				X														
75	BH115/MW06 0.9-1.0	Aug 13, 2019				X														
76	BH135/MW07 0.4-0.5	Aug 13, 2019				X														
77	TP08_0.4-0.5	Aug 13, 2019				X														
78	TP08_0.9-1.0	Aug 13, 2019				X														
79	TP08_1.4-1.5	Aug 13, 2019				X														
80	TP08_1.9-2.0	Aug 13, 2019				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
81	TP08_2.4-2.5	Aug 13, 2019				X														
82	TP08_3.4-3.5	Aug 13, 2019				X														
83	TP20_0.4-0.5	Aug 13, 2019				X														
84	TP20_1.4-1.5	Aug 13, 2019				X														
85	TP20_1.9-2.0	Aug 13, 2019				X														
86	TP20_2.4-2.5	Aug 13, 2019				X														
87	TP20_2.9-3.0	Aug 13, 2019				X														
88	TP07_0.4-0.5	Aug 13, 2019				X														
89	TP07_1.9-2.0	Aug 13, 2019				X														
90	TP07_2.9-3.0	Aug 13, 2019				X														
91	TP07_3.4-3.5	Aug 13, 2019				X														
92	TP07_3.8-3.9	Aug 13, 2019				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
93	TP06_0.9-1.0	Aug 13, 2019				X														
94	TP06_1.4-1.5	Aug 13, 2019				X														
95	TP06_1.9-2.0	Aug 13, 2019				X														
96	TP06_2.9-3.0	Aug 13, 2019				X														
97	TP06_3.2-3.3	Aug 13, 2019				X														
98	TP51_0.6-0.7	Aug 12, 2019				X														
99	TP141_1.6-1.7	Aug 12, 2019				X														
100	TP63_1.3-1.4	Aug 12, 2019				X														
101	TP63_2.2-2.3	Aug 12, 2019				X														
102	TP140_0.9-1.0	Aug 12, 2019				X														
103	TP64_0.3-0.4	Aug 12, 2019				X														
104	TP64_0.6-0.7	Aug 12, 2019				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
105	TP139_0.9-1.0	Aug 12, 2019				X														
106	TP139_1.2-1.3	Aug 12, 2019				X														
107	TP139_2.1-2.2	Aug 12, 2019				X														
108	TP138_0.15-0.25	Aug 12, 2019				X														
109	TP138_0.5-0.6	Aug 12, 2019				X														
110	TP137_0.55-0.65	Aug 12, 2019				X														
111	TP53_1.9-2.0	Aug 12, 2019				X														
112	TP53_2.5-2.6	Aug 12, 2019				X														
113	TP52_1.5-2.0	Aug 12, 2019				X														
114	TP52_3.5-3.6	Aug 12, 2019				X														
115	TP52_4.1-4.2	Aug 12, 2019				X														

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
116	TP33_0.4-0.5	Aug 12, 2019				X														
117	TP33_1.4-1.5	Aug 12, 2019				X														
118	TP33_1.9-2.0	Aug 12, 2019				X														
119	TP33_2.4-2.5	Aug 12, 2019				X														
120	TP33_2.9-3.0	Aug 12, 2019				X														
121	TP43_0.4-0.5	Aug 12, 2019				X														
122	TP43_0.5-0.6	Aug 12, 2019				X														
123	TP44_0.9-1.0	Aug 12, 2019				X														
124	TP44_1.4-1.5	Aug 12, 2019				X														
125	TP44_1.9-2.0	Aug 12, 2019				X														
126	TP44_2.3-2.4	Aug 12, 2019				X														
127	TP45_0.4-0.5	Aug 12, 2019				X														

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671221	Due: Aug 21, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
128	TP45_0.9-1.0	Aug 12, 2019																		
129	TP46_1.0-1.1	Aug 12, 2019																		
130	TP47_0.4-0.5	Aug 12, 2019																		
131	TP47_1.0-1.1	Aug 12, 2019																		
132	TP48_0.4-0.5	Aug 12, 2019																		
133	TP48_0.9-1.0	Aug 12, 2019																		
134	TP49_0.9-1.0	Aug 12, 2019																		
135	TP49_1.4-1.5	Aug 12, 2019																		
136	TP49_1.9-2.0	Aug 12, 2019																		
137	TP50_0.4-0.5	Aug 12, 2019																		
138	TP50_0.6-0.7	Aug 12, 2019																		
139	TP60_0.4-0.5	Aug 12, 2019																		

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Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
140	TP60_0.9-1.0	Aug 12, 2019				X														
141	TP62_0.4-0.5	Aug 12, 2019				X														
142	TP07_0.9-1.0	Aug 12, 2019				X														
Test Counts			35	1	1	78	1	40	8	4	40	2	12	22	2	51	51	22	1	4

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	mg/kg	< 20		20	Pass	
TRH C10-C14	mg/kg	< 20		20	Pass	
TRH C15-C28	mg/kg	< 50		50	Pass	
TRH C29-C36	mg/kg	< 50		50	Pass	
Method Blank						
Volatile Organics						
1.1-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5		0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5		0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5		0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5		0.5	Pass	
Allyl chloride	mg/kg	< 0.5		0.5	Pass	
Benzene	mg/kg	< 0.1		0.1	Pass	
Bromobenzene	mg/kg	< 0.5		0.5	Pass	
Bromochloromethane	mg/kg	< 0.5		0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5		0.5	Pass	
Bromoform	mg/kg	< 0.5		0.5	Pass	
Bromomethane	mg/kg	< 0.5		0.5	Pass	
Carbon disulfide	mg/kg	< 0.5		0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5		0.5	Pass	
Chlorobenzene	mg/kg	< 0.5		0.5	Pass	
Chloroethane	mg/kg	< 0.5		0.5	Pass	
Chloroform	mg/kg	< 0.5		0.5	Pass	
Chloromethane	mg/kg	< 0.5		0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5		0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5		0.5	Pass	
Dibromomethane	mg/kg	< 0.5		0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5		0.5	Pass	
Ethylbenzene	mg/kg	< 0.1		0.1	Pass	
Iodomethane	mg/kg	< 0.5		0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5		0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2		0.2	Pass	
Methylene Chloride	mg/kg	< 0.5		0.5	Pass	
o-Xylene	mg/kg	< 0.1		0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	%	109		70-130	Pass	
TRH C10-C14	%	100		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	86		70-130	Pass	
1.1.1-Trichloroethane	%	107		70-130	Pass	
1.2-Dichlorobenzene	%	125		70-130	Pass	
1.2-Dichloroethane	%	125		70-130	Pass	
Benzene	%	93		70-130	Pass	
Ethylbenzene	%	97		70-130	Pass	
m&p-Xylenes	%	97		70-130	Pass	
Toluene	%	91		70-130	Pass	
Trichloroethene	%	103		70-130	Pass	
Xylenes - Total	%	100		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	125		70-130	Pass	
TRH C6-C10	%	107		70-130	Pass	
TRH >C10-C16	%	91		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	103		70-130	Pass	
Acenaphthylene	%	105		70-130	Pass	
Anthracene	%	98		70-130	Pass	
Benz(a)anthracene	%	80		70-130	Pass	
Benzo(a)pyrene	%	105		70-130	Pass	
Benzo(b&j)fluoranthene	%	72		70-130	Pass	
Benzo(g,h,i)perylene	%	76		70-130	Pass	
Benzo(k)fluoranthene	%	105		70-130	Pass	
Chrysene	%	79		70-130	Pass	
Dibenz(a,h)anthracene	%	86		70-130	Pass	
Fluoranthene	%	98		70-130	Pass	
Fluorene	%	71		70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	71		70-130	Pass	
Naphthalene	%	99		70-130	Pass	
Phenanthrene	%	98		70-130	Pass	
Pyrene	%	98		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	105		70-130	Pass	
4.4'-DDD	%	106		70-130	Pass	
4.4'-DDE	%	108		70-130	Pass	
4.4'-DDT	%	86		70-130	Pass	
a-BHC	%	102		70-130	Pass	
Aldrin	%	116		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-BHC	%	80			70-130	Pass	
d-BHC	%	87			70-130	Pass	
Dieldrin	%	121			70-130	Pass	
Endosulfan I	%	107			70-130	Pass	
Endosulfan II	%	107			70-130	Pass	
Endosulfan sulphate	%	103			70-130	Pass	
Endrin	%	99			70-130	Pass	
Endrin aldehyde	%	77			70-130	Pass	
Endrin ketone	%	114			70-130	Pass	
g-BHC (Lindane)	%	88			70-130	Pass	
Heptachlor	%	77			70-130	Pass	
Heptachlor epoxide	%	100			70-130	Pass	
Hexachlorobenzene	%	113			70-130	Pass	
Methoxychlor	%	74			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	111			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	85			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	105			80-120	Pass	
Mercury	%	101			75-125	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	113			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	110			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	113			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	110			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	117			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	116			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	117			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	120			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	114			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	130			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	115			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	112			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	114			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	92			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	134			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	120			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	95			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	110			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	113			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	143			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	122			50-150	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Perfluoropentanesulfonic acid (PFPeS)				%	116			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)				%	104			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)				%	121			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)				%	134			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)				%	111			50-150	Pass		
LCS - % Recovery											
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)											
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)				%	107			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)				%	124			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)				%	136			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)				%	105			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery											
Organochlorine Pesticides											
4.4'-DDD				M19-Au15707	NCP	%	81			70-130	Pass
Spike - % Recovery											
Perfluoroalkyl carboxylic acids (PFCAs)											
Perfluorobutanoic acid (PFBA)				S19-Au20918	NCP	%	116			50-150	Pass
Perfluoropentanoic acid (PFPeA)				S19-Au20918	NCP	%	110			50-150	Pass
Perfluorohexanoic acid (PFHxA)				S19-Au20918	NCP	%	120			50-150	Pass
Perfluoroheptanoic acid (PFHpA)				S19-Au20918	NCP	%	105			50-150	Pass
Perfluorooctanoic acid (PFOA)				S19-Au20918	NCP	%	111			50-150	Pass
Perfluorononanoic acid (PFNA)				S19-Au20918	NCP	%	120			50-150	Pass
Perfluorodecanoic acid (PFDA)				S19-Au20918	NCP	%	116			50-150	Pass
Perfluoroundecanoic acid (PFUnDA)				S19-Au20918	NCP	%	123			50-150	Pass
Perfluorododecanoic acid (PFDoDA)				S19-Au20918	NCP	%	106			50-150	Pass
Perfluorotridecanoic acid (PFTrDA)				S19-Au20918	NCP	%	125			50-150	Pass
Perfluorotetradecanoic acid (PFTeDA)				S19-Au20918	NCP	%	114			50-150	Pass
Spike - % Recovery											
Perfluoroalkyl sulfonamido substances											
Perfluorooctane sulfonamide (FOSA)				S19-Au20918	NCP	%	117			50-150	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)				S19-Au20918	NCP	%	114			50-150	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)				S19-Au20918	NCP	%	109			50-150	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)				S19-Au20918	NCP	%	135			50-150	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)				S19-Au20918	NCP	%	126			50-150	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)				S19-Au20918	NCP	%	102			50-150	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)				S19-Au20918	NCP	%	113			50-150	Pass
Spike - % Recovery											
Perfluoroalkyl sulfonic acids (PFSAs)											
Perfluorobutanesulfonic acid (PFBS)				S19-Au20918	NCP	%	116			50-150	Pass
Perfluorononanesulfonic acid (PFNS)				S19-Au20918	NCP	%	138			50-150	Pass
Perfluoropropanesulfonic acid (PFPrS)				S19-Au20918	NCP	%	130			50-150	Pass

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	S19-Au20918	NCP	%	135		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S19-Au20918	NCP	%	105		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S19-Au20918	NCP	%	113		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S19-Au20918	NCP	%	127		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S19-Au20918	NCP	%	121		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S19-Au20918	NCP	%	103		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-Au20918	NCP	%	117		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S19-Au20918	NCP	%	124		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S19-Au20918	NCP	%	110		50-150	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au20130	CP	%	82		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au20130	CP	%	81		70-130	Pass	
1.1.1-Trichloroethane	S19-Au20130	CP	%	81		70-130	Pass	
1.2-Dichlorobenzene	S19-Au20130	CP	%	92		70-130	Pass	
1.2-Dichloroethane	S19-Au20130	CP	%	103		70-130	Pass	
Benzene	S19-Au20130	CP	%	71		70-130	Pass	
Ethylbenzene	S19-Au20130	CP	%	73		70-130	Pass	
m&p-Xylenes	S19-Au20130	CP	%	73		70-130	Pass	
o-Xylene	S19-Au20130	CP	%	77		70-130	Pass	
Toluene	S19-Au20130	CP	%	75		70-130	Pass	
Trichloroethene	S19-Au20130	CP	%	75		70-130	Pass	
Xylenes - Total	S19-Au20130	CP	%	74		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au20130	CP	%	88		70-130	Pass	
TRH C6-C10	S19-Au20130	CP	%	80		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S19-Au20130	CP	%	94		70-130	Pass	
4.4'-DDE	S19-Au20130	CP	%	89		70-130	Pass	
4.4'-DDT	S19-Au20130	CP	%	84		70-130	Pass	
a-BHC	S19-Au20130	CP	%	87		70-130	Pass	
Aldrin	S19-Au20130	CP	%	88		70-130	Pass	
b-BHC	S19-Au20130	CP	%	71		70-130	Pass	
d-BHC	S19-Au20130	CP	%	95		70-130	Pass	
Dieldrin	S19-Au20130	CP	%	93		70-130	Pass	
Endosulfan I	S19-Au20130	CP	%	92		70-130	Pass	
Endosulfan II	S19-Au20130	CP	%	88		70-130	Pass	
Endosulfan sulphate	S19-Au20130	CP	%	75		70-130	Pass	
Endrin	S19-Au20130	CP	%	75		70-130	Pass	
Endrin aldehyde	S19-Au20130	CP	%	97		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S19-Au20130	CP	%	85		70-130	Pass	
g-BHC (Lindane)	S19-Au20130	CP	%	115		70-130	Pass	
Heptachlor	S19-Au20130	CP	%	82		70-130	Pass	
Heptachlor epoxide	S19-Au20130	CP	%	92		70-130	Pass	
Hexachlorobenzene	S19-Au20130	CP	%	93		70-130	Pass	
Methoxychlor	S19-Au07185	NCP	%	76		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	S19-Au20142	CP	%	125		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	S19-Au20142	CP	%	110		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au20151	CP	%	86		75-125	Pass	
Cadmium	S19-Au20151	CP	%	82		75-125	Pass	
Chromium	S19-Au20151	CP	%	86		75-125	Pass	
Lead	S19-Au20151	CP	%	76		75-125	Pass	
Mercury	S19-Au20151	CP	%	93		70-130	Pass	
Nickel	S19-Au20151	CP	%	75		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au20160	CP	%	95		75-125	Pass	
Cadmium	S19-Au20160	CP	%	90		75-125	Pass	
Chromium	S19-Au20160	CP	%	95		75-125	Pass	
Copper	S19-Au20160	CP	%	99		75-125	Pass	
Lead	S19-Au20160	CP	%	99		75-125	Pass	
Mercury	S19-Au20160	CP	%	105		70-130	Pass	
Nickel	S19-Au20160	CP	%	100		75-125	Pass	
Zinc	S19-Au20160	CP	%	104		75-125	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S19-Au20163	CP	%	129		70-130	Pass	
Aroclor-1260	S19-Au20163	CP	%	126		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au20165	CP	%	71		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au20165	CP	%	85		70-130	Pass	
1.1.1-Trichloroethane	S19-Au20165	CP	%	99		70-130	Pass	
1.2-Dichlorobenzene	S19-Au20165	CP	%	126		70-130	Pass	
1.2-Dichloroethane	S19-Au20165	CP	%	127		70-130	Pass	
Benzene	S19-Au20165	CP	%	93		70-130	Pass	
Ethylbenzene	S19-Au20165	CP	%	103		70-130	Pass	
m&p-Xylenes	S19-Au20165	CP	%	103		70-130	Pass	
o-Xylene	S19-Au20165	CP	%	109		70-130	Pass	
Toluene	S19-Au20165	CP	%	96		70-130	Pass	
Trichloroethene	S19-Au20165	CP	%	97		70-130	Pass	
Xylenes - Total	S19-Au20165	CP	%	105		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au20165	CP	%	129		70-130	Pass	
TRH C6-C10	S19-Au20165	CP	%	90		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au20166	CP	%	97		75-125	Pass	
Cadmium	S19-Au20166	CP	%	90		75-125	Pass	
Chromium	S19-Au20166	CP	%	90		75-125	Pass	
Copper	S19-Au20166	CP	%	100		75-125	Pass	
Lead	S19-Au20166	CP	%	90		75-125	Pass	
Mercury	S19-Au20166	CP	%	99		70-130	Pass	
Nickel	S19-Au20166	CP	%	99		75-125	Pass	
Zinc	S19-Au20166	CP	%	98		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au20172	CP	%	84		70-130	Pass	
Acenaphthylene	S19-Au20172	CP	%	89		70-130	Pass	
Anthracene	S19-Au20172	CP	%	93		70-130	Pass	
Benz(a)anthracene	S19-Au20172	CP	%	81		70-130	Pass	
Benzo(a)pyrene	S19-Au20172	CP	%	72		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au20172	CP	%	75		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au20172	CP	%	104		70-130	Pass	
Benzo(k)fluoranthene	S19-Au20172	CP	%	104		70-130	Pass	
Chrysene	S19-Au20172	CP	%	111		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au20172	CP	%	117		70-130	Pass	
Fluoranthene	S19-Au20172	CP	%	82		70-130	Pass	
Fluorene	S19-Au20172	CP	%	91		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au20172	CP	%	87		70-130	Pass	
Naphthalene	S19-Au20172	CP	%	92		70-130	Pass	
Phenanthrene	S19-Au20172	CP	%	91		70-130	Pass	
Pyrene	S19-Au20172	CP	%	81		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au20178	CP	%	92		75-125	Pass	
Cadmium	S19-Au20178	CP	%	79		75-125	Pass	
Chromium	S19-Au20178	CP	%	92		75-125	Pass	
Copper	S19-Au20178	CP	%	93		75-125	Pass	
Lead	S19-Au20178	CP	%	95		75-125	Pass	
Mercury	S19-Au20178	CP	%	91		70-130	Pass	
Nickel	S19-Au20178	CP	%	93		75-125	Pass	
Zinc	S19-Au20178	CP	%	94		75-125	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S19-Au20179	CP	%	124		70-130	Pass	
Aroclor-1260	S19-Au20179	CP	%	122		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au20181	CP	%	78		75-125	Pass	
Cadmium	S19-Au20181	CP	%	75		75-125	Pass	
Chromium	S19-Au20181	CP	%	78		75-125	Pass	
Copper	S19-Au20181	CP	%	77		75-125	Pass	
Lead	S19-Au20181	CP	%	77		75-125	Pass	
Mercury	S19-Au20181	CP	%	84		70-130	Pass	
Nickel	S19-Au20181	CP	%	77		75-125	Pass	
Zinc	S19-Au20181	CP	%	78		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	S19-Au20183	CP	%	125			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S19-Au20183	CP	%	112			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	M19-Au19467	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M19-Au15706	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S19-Au20124	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S19-Au20124	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S19-Au20124	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S19-Au20124	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S19-Au20124	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S19-Au20124	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M19-Au20562	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M19-Au20562	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M19-Au20562	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M19-Au20562	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au20128	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au20128	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au20128	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20128	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au20128	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20128	CP	mg/kg	6.4	7.5	16	30%	Pass
Copper	S19-Au20128	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20128	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au20128	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20128	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20128	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
SPOCAS Suite				Result 1	Result 2	RPD		
pH-KCL	M19-Au17982	NCP	pH Units	6.7	6.7	1.0	30%	Pass
pH-OX	M19-Au17982	NCP	pH Units	6.1	6.1	<1	30%	Pass
Acid trail - Titratable Actual Acidity	M19-Au17982	NCP	mol H+/t	< 2	< 2	<1	30%	Pass
Acid trail - Titratable Peroxide Acidity	M19-Au17982	NCP	mol H+/t	< 2	< 2	<1	30%	Pass
Acid trail - Titratable Sulfidic Acidity	M19-Au17982	NCP	mol H+/t	< 2	< 2	<1	30%	Pass
sulfidic - TAA equiv. S% pyrite	M19-Au17982	NCP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass
sulfidic - TPA equiv. S% pyrite	M19-Au17982	NCP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass
sulfidic - TSA equiv. S% pyrite	M19-Au17982	NCP	% pyrite S	< 0.02	< 0.02	<1	30%	Pass
Sulfur - KCl Extractable	M19-Au17982	NCP	% S	< 0.02	< 0.02	<1	30%	Pass
Sulfur - Peroxide	M19-Au17982	NCP	% S	0.08	0.08	4.0	30%	Pass
Sulfur - Peroxide Oxidisable Sulfur	M19-Au17982	NCP	% S	0.08	0.08	4.0	30%	Pass
acidity - Peroxide Oxidisable Sulfur	M19-Au17982	NCP	mol H+/t	52	50	4.0	30%	Pass
HCl Extractable Sulfur	M19-Au17982	NCP	% S	n/a	n/a	n/a	30%	Pass
Net Acid soluble sulfur	M19-Au17982	NCP	% S	n/a	n/a	n/a	30%	Pass
Net Acid soluble sulfur - acidity units	M19-Au17982	NCP	mol H+/t	n/a	n/a	n/a	30%	Pass
Net Acid soluble sulfur - equivalent S% pyrite	M19-Au17982	NCP	% S	n/a	n/a	n/a	30%	Pass
Calcium - KCl Extractable	M19-Au17982	NCP	% Ca	0.16	0.16	1.0	30%	Pass
Calcium - Peroxide	M19-Au17982	NCP	% Ca	0.17	0.15	8.0	30%	Pass
Acid Reacted Calcium	M19-Au17982	NCP	% Ca	< 0.02	< 0.02	<1	30%	Pass

Duplicate								
SPOCAS Suite				Result 1	Result 2	RPD		
acidity - Acid Reacted Calcium	M19-Au17982	NCP	mol H+/t	< 10	< 10	<1	30%	Pass
sulfidic - Acid Reacted Ca equiv. S% pyrite	M19-Au17982	NCP	% S	< 0.02	< 0.02	<1	30%	Pass
Magnesium - KCl Extractable	M19-Au17982	NCP	% Mg	0.03	0.02	5.0	30%	Pass
Magnesium - Peroxide	M19-Au17982	NCP	% Mg	0.03	0.03	5.0	30%	Pass
Acid Reacted Magnesium	M19-Au17982	NCP	% Mg	< 0.02	< 0.02	<1	30%	Pass
acidity - Acid Reacted Magnesium	M19-Au17982	NCP	mol H+/t	< 10	< 10	<1	30%	Pass
sulfidic - Acid Reacted Mg equiv. S% pyrite	M19-Au17982	NCP	% S	< 0.02	< 0.02	<1	30%	Pass
Acid Neutralising Capacity (ANCE)	M19-Au17982	NCP	% CaCO3	n/a	n/a	n/a	30%	Pass
Acid Neutralising Capacity - Acidity units (a-ANCE)	M19-Au17982	NCP	mol H+/t	n/a	n/a	n/a	30%	Pass
ANC Fineness Factor	M19-Au17982	NCP	factor	1.5	1.5	<1	30%	Pass
SPOCAS - Liming rate	M19-Au17982	NCP	kg CaCO3/t	1.0	1.0	4.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au20140	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au20140	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au20140	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au20140	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au20140	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au20140	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au20143	CP	%	18	21	16	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20149	CP	mg/kg	7.4	11	39	30%	Fail Q15
Cadmium	S19-Au20149	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20149	CP	mg/kg	8.1	8.9	9.0	30%	Pass
Copper	S19-Au20149	CP	mg/kg	6.1	13	70	30%	Fail Q15
Lead	S19-Au20149	CP	mg/kg	11	9.3	14	30%	Pass
Mercury	S19-Au20149	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20149	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20151	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au20151	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20151	CP	mg/kg	6.8	6.3	8.0	30%	Pass
Copper	S19-Au20151	CP	mg/kg	6.5	6.1	5.0	30%	Pass
Lead	S19-Au20151	CP	mg/kg	13	13	4.0	30%	Pass
Mercury	S19-Au20151	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20151	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20151	CP	mg/kg	30	29	4.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&i)fluoranthene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(k)fluoranthene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au20152	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au20152	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au20152	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
% Moisture	S19-Au20156	CP	%	11	11	4.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20159	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au20159	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20159	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au20159	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20159	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au20159	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20159	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20159	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20160	CP	mg/kg	10	10	3.0	30%	Pass
Cadmium	S19-Au20160	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20160	CP	mg/kg	16	17	10	30%	Pass
Copper	S19-Au20160	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20160	CP	mg/kg	17	19	8.0	30%	Pass
Mercury	S19-Au20160	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20160	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20160	CP	mg/kg	6.1	6.6	8.0	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au20162	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au20163	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2-Trichloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2,2-Tetrachloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromoethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichlorobenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloropropane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,3-Trichloropropane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,4-Trimethylbenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichlorobenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichloropropane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3,5-Trimethylbenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,4-Dichlorobenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	S19-Au20163	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
cis-1.2-Dichloroethene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S19-Au20163	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	S19-Au20163	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	S19-Au20163	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S19-Au20163	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total	S19-Au20163	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au20163	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au20163	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20166	CP	mg/kg	5.3	5.9	11	30%	Pass
Cadmium	S19-Au20166	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20166	CP	mg/kg	14	17	22	30%	Pass
Copper	S19-Au20166	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20166	CP	mg/kg	9.6	12	23	30%	Pass
Mercury	S19-Au20166	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20166	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20166	CP	mg/kg	11	13	20	30%	Pass
Duplicate								
% Moisture	S19-Au20169	CP	%	5.3	6.0	12	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au20170	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au20170	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au20170	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au20170	CP	%	13	14	5.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20174	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au20174	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20174	CP	mg/kg	5.3	5.6	5.0	30%	Pass
Copper	S19-Au20174	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20174	CP	mg/kg	9.2	10	9.0	30%	Pass
Mercury	S19-Au20174	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20174	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au20176	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au20176	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au20176	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au20176	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au20176	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au20176	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Fluoranthene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au20176	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au20176	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au20176	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20178	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au20178	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20178	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au20178	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20178	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au20178	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20178	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20178	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au20181	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au20181	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au20181	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au20181	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au20181	CP	mg/kg	5.4	5.8	7.0	30%	Pass
Mercury	S19-Au20181	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au20181	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au20181	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au20182	CP	%	2.2	2.2	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
M10	NATA accreditation does not cover the performance of this service in soil matrices
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised By

Ursula Long	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Myles Clark	Senior Analyst-SPOCAS (QLD)
Nandhini Uthayakumaran	Senior Analyst-Microbiology (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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JBS & G Australia (NSW) P/L
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Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217 & 14271

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill

Report 671221-W
 Project name CENTRAL COAST DSI
 Project ID 56387
 Received Date Aug 14, 2019

Client Sample ID			R20 TS Water	TB Water	RIN01 Water	RIN02 Water
Sample Matrix	LOR	Unit	S19-Au20136	S19-Au20137	S19-Au20138	S19-Au20139
Eurofins Sample No.			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Date Sampled						
Test/Reference						
BTEX						
Benzene	0.001	mg/L	88	< 0.001	-	-
Toluene	0.001	mg/L	80	< 0.001	-	-
Ethylbenzene	0.001	mg/L	80	< 0.001	-	-
m&p-Xylenes	0.002	mg/L	77	< 0.002	-	-
o-Xylene	0.001	mg/L	85	< 0.001	-	-
Xylenes - Total	0.003	mg/L	79	< 0.003	-	-
4-Bromofluorobenzene (surr.)	1	%	111	88	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	-	-	< 0.001	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Total PAH*	0.001	mg/L	-	-	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	98	53
p-Terphenyl-d14 (surr.)	1	%	-	-	81	80
Heavy Metals						
Arsenic	0.001	mg/L	-	-	< 0.001	< 0.001
Cadmium	0.0002	mg/L	-	-	< 0.0002	< 0.0002
Chromium	0.001	mg/L	-	-	< 0.001	< 0.001
Copper	0.001	mg/L	-	-	< 0.001	< 0.001
Lead	0.001	mg/L	-	-	< 0.001	< 0.001
Mercury	0.0001	mg/L	-	-	< 0.0001	< 0.0001
Nickel	0.001	mg/L	-	-	< 0.001	< 0.001
Zinc	0.005	mg/L	-	-	< 0.005	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 15, 2019	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 16, 2019	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 15, 2019	180 Days

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	BH001/MW01 0.0-0.1	Aug 12, 2019		Soil	S19-Au20121	X					X			X					X				
2	BH001/MW01 0.2-0.3	Aug 12, 2019		Soil	S19-Au20122											X	X		X		X		
3	BH002/MW02 0.0-0.1	Aug 12, 2019		Soil	S19-Au20123	X																	
4	BH002/MW02 0.2-0.3	Aug 12, 2019		Soil	S19-Au20124						X			X		X	X		X		X		
5	BH002/MW02 6.0-6.1	Aug 12, 2019		Soil	S19-Au20125														X				X
6	BH003 0.0-0.1	Aug 12, 2019		Soil	S19-Au20126	X					X			X					X				

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Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
7	BH142 0.0-0.1	Aug 12, 2019		Soil	S19-Au20127	X																	
8	BH142 0.2-0.3	Aug 12, 2019		Soil	S19-Au20128						X			X		X							X
9	BH143 0.0-0.1	Aug 12, 2019		Soil	S19-Au20129	X					X			X									
10	BH115/MW06 0.0-0.1	Aug 13, 2019		Soil	S19-Au20130	X					X			X		X					X		
11	BH115/MW06 0.2-0.3	Aug 13, 2019		Soil	S19-Au20131	X					X			X						X			
12	BH115/MW06 4.8-4.9	Aug 13, 2019		Soil	S19-Au20132															X			X
13	BH135/MW07 0.0-0.1	Aug 13, 2019		Soil	S19-Au20133	X						X		X			X	X					
14	BH135/MW01 0.2-0.3	Aug 13, 2019		Soil	S19-Au20134						X							X					X
15	BH135/MW01	Aug 13, 2019		Soil	S19-Au20135												X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
	1.7-1.8																						
16	TS	Aug 13, 2019		Water	S19-Au20136										X								
17	TB	Aug 13, 2019		Water	S19-Au20137										X								
18	RIN01	Aug 13, 2019		Water	S19-Au20138						X			X									
19	RIN02	Aug 13, 2019		Water	S19-Au20139						X			X									
20	QC01	Aug 13, 2019		Soil	S19-Au20140						X			X	X	X	X	X		X			
21	TP08_0.0-0.1	Aug 13, 2019		Soil	S19-Au20141	X					X			X				X		X			
22	TP08_2.9-3.0	Aug 13, 2019		Soil	S19-Au20142							X					X	X		X			
23	TP08_3.9-4.0	Aug 13, 2019		Soil	S19-Au20143						X			X		X		X		X			
24	TP20_0.0-0.1	Aug 13, 2019		Soil	S19-Au20144	X																	
25	TP20_0.9-1.0	Aug 13, 2019		Soil	S19-Au20145						X	X					X	X		X			
26	TP20_3.4-3.5	Aug 13, 2019		Soil	S19-Au20146						X			X				X		X			

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Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
27	TP07_0.0-0.1	Aug 13, 2019							X					X		X		X		
28	TP07_1.4-1.5	Aug 13, 2019			X		X									X			X	
29	TP07_2.4-2.5	Aug 13, 2019						X			X					X				
30	TP06_0.0-0.1	Aug 13, 2019																		
31	TP06_0.4-0.5	Aug 13, 2019						X			X			X		X		X		
32	TP06_2.4-2.5	Aug 13, 2019						X			X		X			X				
33	TP08_FRAG01	Aug 13, 2019																		
34	TP51_0.0-0.1	Aug 12, 2019						X			X					X				
35	TP141_0.0-0.1	Aug 12, 2019						X			X					X				
36	TP141_0.9-1.0	Aug 12, 2019						X		X				X		X		X		
37	TP63_0.4-0.5	Aug 12, 2019						X			X					X				

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
38	TP140_0.0-0.1	Aug 12, 2019		Soil	S19-Au20158	X					X	X		X			X	X	X	X			
39	TP64_0.0-0.1	Aug 12, 2019		Soil	S19-Au20159	X					X			X			X	X	X	X			
40	TP139_0.0-0.1	Aug 12, 2019		Soil	S19-Au20160	X					X		X	X				X					
41	TP138_0.0-0.1	Aug 12, 2019		Soil	S19-Au20161						X			X				X					
42	TP137_0.0-0.1	Aug 12, 2019		Soil	S19-Au20162	X					X			X				X					
43	TP137_0.4-0.5	Aug 12, 2019		Soil	S19-Au20163											X	X	X		X			
44	TP53_0.0-0.1	Aug 12, 2019		Soil	S19-Au20164	X																	
45	TP53_0.9-1.0	Aug 12, 2019		Soil	S19-Au20165									X			X	X	X	X			
46	TP52_0.0-0.5	Aug 12, 2019		Soil	S19-Au20166	X					X	X		X			X	X	X	X			
47	TP33_0.0-0.1	Aug 12, 2019		Soil	S19-Au20167	X																	
48	TP33_0.9-1.0	Aug 12, 2019		Soil	S19-Au20168	X					X			X		X	X	X	X	X			
49	TP43_0.0-0.1	Aug 12, 2019		Soil	S19-Au20169	X					X			X				X					

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Sample Detail					Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																	X	X	X			X
Perth Laboratory - NATA Site # 23736																						
50	TP44_0.0-0.1	Aug 12, 2019		Soil	S19-Au20170	X				X			X		X			X				
51	TP44_0.4-0.5	Aug 12, 2019		Soil	S19-Au20171											X		X		X		
52	TP45_0.0-0.1	Aug 12, 2019		Soil	S19-Au20172	X				X	X		X					X				
53	TP46_0.0-0.1	Aug 12, 2019		Soil	S19-Au20173	X																
54	TP46_0.4-0.5	Aug 12, 2019		Soil	S19-Au20174					X		X	X			X		X		X		
55	TP47_0.0-0.1	Aug 12, 2019		Soil	S19-Au20175	X				X		X	X					X				
56	QC02	Aug 12, 2019		Soil	S19-Au20176	X				X		X	X	X	X	X		X		X		
57	TP48_0.0-0.1	Aug 12, 2019		Soil	S19-Au20177	X				X		X	X			X		X		X		
58	TP49_0.0-0.1	Aug 12, 2019		Soil	S19-Au20178	X																
59	TP49_0.4-0.5	Aug 12, 2019		Soil	S19-Au20179					X		X	X					X				
60	TP50_0.0-0.1	Aug 12, 2019		Soil	S19-Au20180	X				X		X	X			X		X		X		
61	TP60_0.0-0.1	Aug 12, 2019		Soil	S19-Au20181	X				X		X	X			X		X		X		

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
62	TP61_0.0-0.1	Aug 12, 2019						X			X					X				
63	TP61_0.4-0.5	Aug 12, 2019											X	X		X		X		
64	TP62_0.0-0.1	Aug 12, 2019						X			X					X				
65	BH001/MW01 0.4-0.5	Aug 12, 2019																		
66	BH001/MW01 0.9-1.0	Aug 12, 2019																		
67	BH002/MW02 0.4-0.5	Aug 12, 2019																		
68	BH002/MW02 0.9-1.0	Aug 12, 2019																		
69	BH003 0.2-0.3	Aug 12, 2019																		
70	BH003 0.4-0.5	Aug 12, 2019																		

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
71	BH142 0.4-0.5	Aug 12, 2019				X														
72	BH143 0.2-0.3	Aug 12, 2019				X														
73	BH143 0.4-0.5	Aug 12, 2019				X														
74	BH115/MW06 0.4-0.5	Aug 13, 2019				X														
75	BH115/MW06 0.9-1.0	Aug 13, 2019				X														
76	BH135/MW07 0.4-0.5	Aug 13, 2019				X														
77	TP08_0.4-0.5	Aug 13, 2019				X														
78	TP08_0.9-1.0	Aug 13, 2019				X														
79	TP08_1.4-1.5	Aug 13, 2019				X														
80	TP08_1.9-2.0	Aug 13, 2019				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X									X					X		
Brisbane Laboratory - NATA Site # 20794																		X	X	X			X
Perth Laboratory - NATA Site # 23736																							
81	TP08_2.4-2.5	Aug 13, 2019		Soil	S19-Au20201				X														
82	TP08_3.4-3.5	Aug 13, 2019		Soil	S19-Au20202				X														
83	TP20_0.4-0.5	Aug 13, 2019		Soil	S19-Au20203				X														
84	TP20_1.4-1.5	Aug 13, 2019		Soil	S19-Au20204				X														
85	TP20_1.9-2.0	Aug 13, 2019		Soil	S19-Au20205				X														
86	TP20_2.4-2.5	Aug 13, 2019		Soil	S19-Au20206				X														
87	TP20_2.9-3.0	Aug 13, 2019		Soil	S19-Au20207				X														
88	TP07_0.4-0.5	Aug 13, 2019		Soil	S19-Au20208				X														
89	TP07_1.9-2.0	Aug 13, 2019		Soil	S19-Au20209				X														
90	TP07_2.9-3.0	Aug 13, 2019		Soil	S19-Au20210				X														
91	TP07_3.4-3.5	Aug 13, 2019		Soil	S19-Au20211				X														
92	TP07_3.8-3.9	Aug 13, 2019		Soil	S19-Au20212				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
93	TP06_0.9-1.0	Aug 13, 2019				X														
94	TP06_1.4-1.5	Aug 13, 2019				X														
95	TP06_1.9-2.0	Aug 13, 2019				X														
96	TP06_2.9-3.0	Aug 13, 2019				X														
97	TP06_3.2-3.3	Aug 13, 2019				X														
98	TP51_0.6-0.7	Aug 12, 2019				X														
99	TP141_1.6-1.7	Aug 12, 2019				X														
100	TP63_1.3-1.4	Aug 12, 2019				X														
101	TP63_2.2-2.3	Aug 12, 2019				X														
102	TP140_0.9-1.0	Aug 12, 2019				X														
103	TP64_0.3-0.4	Aug 12, 2019				X														
104	TP64_0.6-0.7	Aug 12, 2019				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
105	TP139_0.9-1.0	Aug 12, 2019				X														
106	TP139_1.2-1.3	Aug 12, 2019				X														
107	TP139_2.1-2.2	Aug 12, 2019				X														
108	TP138_0.15-0.25	Aug 12, 2019				X														
109	TP138_0.5-0.6	Aug 12, 2019				X														
110	TP137_0.55-0.65	Aug 12, 2019				X														
111	TP53_1.9-2.0	Aug 12, 2019				X														
112	TP53_2.5-2.6	Aug 12, 2019				X														
113	TP52_1.5-2.0	Aug 12, 2019				X														
114	TP52_3.5-3.6	Aug 12, 2019				X														
115	TP52_4.1-4.2	Aug 12, 2019				X														

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Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
116	TP33_0.4-0.5	Aug 12, 2019				X														
117	TP33_1.4-1.5	Aug 12, 2019				X														
118	TP33_1.9-2.0	Aug 12, 2019				X														
119	TP33_2.4-2.5	Aug 12, 2019				X														
120	TP33_2.9-3.0	Aug 12, 2019				X														
121	TP43_0.4-0.5	Aug 12, 2019				X														
122	TP43_0.5-0.6	Aug 12, 2019				X														
123	TP44_0.9-1.0	Aug 12, 2019				X														
124	TP44_1.4-1.5	Aug 12, 2019				X														
125	TP44_1.9-2.0	Aug 12, 2019				X														
126	TP44_2.3-2.4	Aug 12, 2019				X														
127	TP45_0.4-0.5	Aug 12, 2019				X														

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671221	Due: Aug 21, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per - and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
128	TP45_0.9-1.0	Aug 12, 2019				X														
129	TP46_1.0-1.1	Aug 12, 2019				X														
130	TP47_0.4-0.5	Aug 12, 2019				X														
131	TP47_1.0-1.1	Aug 12, 2019				X														
132	TP48_0.4-0.5	Aug 12, 2019				X														
133	TP48_0.9-1.0	Aug 12, 2019				X														
134	TP49_0.9-1.0	Aug 12, 2019				X														
135	TP49_1.4-1.5	Aug 12, 2019				X														
136	TP49_1.9-2.0	Aug 12, 2019				X														
137	TP50_0.4-0.5	Aug 12, 2019				X														
138	TP50_0.6-0.7	Aug 12, 2019				X														
139	TP60_0.4-0.5	Aug 12, 2019				X														

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 14, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671221	Due: Aug 21, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli	HOLD	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	SPOCAS Suite	Moisture Set	Moisture Set	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X	X	X	X	X	X	X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217			X	X									X					X		
Brisbane Laboratory - NATA Site # 20794															X	X	X			X
Perth Laboratory - NATA Site # 23736																				
140	TP60_0.9-1.0	Aug 12, 2019				X														
141	TP62_0.4-0.5	Aug 12, 2019				X														
142	TP07_0.9-1.0	Aug 12, 2019				X														
Test Counts			35	1	1	78	1	40	8	4	40	2	12	22	2	51	51	22	1	4

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	88			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	78			70-130	Pass	
m&p-Xylenes	%	77			70-130	Pass	
Xylenes - Total	%	78			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	129			70-130	Pass	
Acenaphthylene	%	114			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	79			70-130	Pass	
Benzo(a)pyrene	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	%	81			70-130	Pass	
Benzo(g,h,i)perylene	%	91			70-130	Pass	

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code		
Benzo(k)fluoranthene	%	82	70-130	Pass			
Chrysene	%	77	70-130	Pass			
Dibenz(a,h)anthracene	%	89	70-130	Pass			
Fluoranthene	%	98	70-130	Pass			
Fluorene	%	124	70-130	Pass			
Indeno(1.2.3-cd)pyrene	%	74	70-130	Pass			
Naphthalene	%	91	70-130	Pass			
Phenanthrene	%	93	70-130	Pass			
Pyrene	%	107	70-130	Pass			
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102	80-120	Pass			
Cadmium	%	100	80-120	Pass			
Chromium	%	101	80-120	Pass			
Copper	%	100	80-120	Pass			
Lead	%	101	80-120	Pass			
Mercury	%	96	75-125	Pass			
Nickel	%	101	80-120	Pass			
Zinc	%	103	80-120	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
BTEX				Result 1			
Benzene	M19-Au22928	NCP	%	97	70-130	Pass	
Toluene	M19-Au22928	NCP	%	106	70-130	Pass	
Ethylbenzene	M19-Au22928	NCP	%	97	70-130	Pass	
m&p-Xylenes	M19-Au22928	NCP	%	96	70-130	Pass	
o-Xylene	M19-Au22928	NCP	%	96	70-130	Pass	
Xylenes - Total	M19-Au22928	NCP	%	96	70-130	Pass	
Spike - % Recovery							
Polycyclic Aromatic Hydrocarbons				Result 1			
Acenaphthene	M19-Au20601	NCP	%	105	70-130	Pass	
Acenaphthylene	M19-Au20601	NCP	%	105	70-130	Pass	
Anthracene	M19-Au20601	NCP	%	89	70-130	Pass	
Benz(a)anthracene	M19-Au20601	NCP	%	90	70-130	Pass	
Benzo(a)pyrene	M19-Au20601	NCP	%	82	70-130	Pass	
Benzo(b&j)fluoranthene	M19-Au20601	NCP	%	80	70-130	Pass	
Benzo(g,h,i)perylene	M19-Au20601	NCP	%	99	70-130	Pass	
Benzo(k)fluoranthene	M19-Au20601	NCP	%	91	70-130	Pass	
Chrysene	M19-Au20601	NCP	%	100	70-130	Pass	
Dibenz(a,h)anthracene	M19-Au20601	NCP	%	75	70-130	Pass	
Fluoranthene	M19-Au20601	NCP	%	71	70-130	Pass	
Fluorene	M19-Au20601	NCP	%	75	70-130	Pass	
Indeno(1.2.3-cd)pyrene	M19-Au20601	NCP	%	105	70-130	Pass	
Naphthalene	M19-Au20601	NCP	%	103	70-130	Pass	
Phenanthrene	M19-Au20601	NCP	%	100	70-130	Pass	
Pyrene	M19-Au20601	NCP	%	73	70-130	Pass	
Spike - % Recovery							
Heavy Metals				Result 1			
Arsenic	M19-Au21793	NCP	%	99	75-125	Pass	
Cadmium	M19-Au21793	NCP	%	101	75-125	Pass	
Chromium	M19-Au21793	NCP	%	100	75-125	Pass	
Copper	M19-Au21793	NCP	%	100	75-125	Pass	
Lead	M19-Au21793	NCP	%	101	75-125	Pass	
Mercury	M19-Au21793	NCP	%	107	70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	M19-Au21793	NCP	%	100			75-125	Pass	
Zinc	M19-Au21793	NCP	%	101			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M19-Au22948	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M19-Au22948	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M19-Au22948	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M19-Au22948	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M19-Au22948	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	M19-Au22948	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g,h,i)perylene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a,h)anthracene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M19-Au20600	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M19-Au21793	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M19-Au21793	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M19-Au21793	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M19-Au21793	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M19-Au21793	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M19-Au21793	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M19-Au21793	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M19-Au21793	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS: <i>msw</i>
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	PH	ANALYSIS										IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS	NOTES
						Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	OM*	PFAs	PERMAVA				
BH017-0.9-1.0	Soil	14.8.19		J														
BH22-0.0-0.1				J+B		x	y		y		x							*OM, FE CEC, pH.
0.4-0.5																		
0.9-1.0																		
1.4-1.5																		
2.4-2.5																		
3.4-3.5																		
BH25/MNO4-0.0-0.1				J+B		y	x	x	x									
0.4-0.5				J														
0.9-1.0				J		x	x	x										
5.5-5.6				J+B		x	x				x							
BH26-0.0-0.1				J+B		x	x				x							
0.2-0.3																		
0.4-0.5																		
BH29-0.0-0.1				J+B		x	x		x	x								
0.4-0.5						x	x											
0.9-1.0																		
BH25/MNO4-0.2-0.3				J+PFAs														
GC04				J+B		x	x											

RELINQUISHED BY: NAME: Ryan DATE:	METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO.	RECEIVED BY: NAME: <i>LONG</i> DATE: OF:	FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes..... No Intact Broken
OF: JBS&G NAME: DATE:	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER TEMP deg C COOLER SEAL - Yes..... No Intact Broken
OF:	TRANSPORT CO.		COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms013 - Chain of Custody - Generic

671628

CHAIN OF CUSTODY



PROJECT NO.: 56387
 PROJECT NAME: Central Coast DSI
 DATE NEEDED BY: Standard TAT
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
 SAMPLERS:
 QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:
												IDENTIFICATION	NEPM/NA	
BH30-0.0-0.1	Soil	14.8.19		J+B		x	x			x	x			
0.4-0.5				↓		x	x							
0.9-1.0				↓										
1.4-1.5				↓										
BH31-0.0-0.1				J+B		x	x							
0.4-0.5				↓										
1.4-1.5				↓										
BH34-0.0-0.1				J+B		x	x							
0.4-0.5				↓		x	x			x				
0.9-1.0				↓										
1.4-1.5				↓		x	x							
2.4-2.5				↓										
3.4-3.5				J										
BH148-0.0-0.1				J+B		x	x							
0.2-0.3				↓										
0.4-0.5				↓										
BH149-0.0-0.1				J+B		x	x							
0.2-0.3				↓		x	x							
BH150-0.0-0.1				J+B		x	x							

RELINQUISHED BY: NAME: Ryan DATE: OF: JBS&G		METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO. CONSIGNMENT NOTE NO. TRANSPORT CO		RECEIVED BY: NAME: DATE: OF:		FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes..... No Intact Broken	
NAME: DATE: OF:		NAME: DATE: OF:		NAME: DATE: OF:		COOLER SEAL - Yes..... No Intact Broken	
						COOLER TEMP deg C	
						COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms013 - Chain of Custody - Generic

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS: <i>MS</i>
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	Biological #	TYPE OF ASBESTOS ANALYSIS		NOTES:
						IDENTIFICATION	NEPM/MA								
<i>TP12-0.0-0.1</i>	<i>Soil</i>	<i>13.8.19</i>		<i>J+B</i>		X	X								<i>E.coli, F.coli, Salmonella</i>
<i>0.4-0.5</i>				<i>J+B</i>											
<i>0.9-1.0</i>				<i>J</i>		X	X	X							
<i>TP11-0.0-0.1</i>				<i>J+B</i>					X						
<i>0.4-0.5</i>				<i>J</i>		X	X				X				
<i>0.9-1.0</i>				<i>J</i>											
<i>1.4-1.5</i>				<i>J</i>		X	X								
<i>1.9-2.0</i>				<i>J</i>		X	X								
<i>TP09-0.0-0.1</i>				<i>J+B</i>		X	X		X	X	X				
<i>0.4-0.5</i>				<i>J</i>				X							
<i>0.9-1.0</i>				<i>J</i>											
<i>1.9-2.0</i>				<i>J</i>											
<i>2.9-3.0</i>				<i>J</i>											
<i>3.9-4.0</i>				<i>Bio</i>								X			
<i>4.4-4.5</i>				<i>J</i>		X	X								
<i>TP10-0.0-0.1</i>				<i>J+B</i>		X	X	X	X		X				
<i>0.4-0.5</i>				<i>J</i>											
<i>0.9-1.0</i>				<i>J</i>											
<i>1.4-1.5</i>				<i>J</i>		X	X								

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <i>Ryan</i>	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: <i>JBS&G</i>		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

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 IMSO Forms013 - Chain of Custody - Generic

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
												IDENTIFICATION	NEPM/WA		
TP146-3.4-3.5	Soil	15.8.19		J+B											
3.9-4.0															
TP145-0.0-0.1						x	x					x			
0.4-0.5								x	x						
0.9-1.0						x				x					
1.4-1.5															
1.9-2.0															
2.4-2.5						x	x	x							
2.9-3.0															
3.4-3.5															
3.9-4.0						x	x								
TP19-0.0-0.1						x	x	x	x						
0.2-0.3															
0.4-0.5						x	x		x	x					
0.9-1.0															
1.4-1.5						x	x	x							
1.9-2.0															
2.4-2.5						x	x								
2.9-3.0															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL - Yes..... No Intact Broken
DATE:	TRANSPORT CO.	DATE:	COOLER TEMP deg C
OF: JBS&G	CONSIGNMENT NOTE NO.	OF:	COOLER SEAL - Yes..... No Intact Broken
NAME:	TRANSPORT CO.	NAME: DATE:	COOLER TEMP deg C
DATE:		OF:	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms013 - Chain of Custody - Generic

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:																TYPE OF ASBESTOS ANALYSIS		NOTES:
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCs	PFAS	IDENTIFICATION	NEPM/NA				
BH10/MNV08-0.0-0.1	Soil	13.8.19		J+B +PFAs		x	x	x				x						
0.2-0.3				J+B														
0.4-0.5				J														
QA03				J+B			x	x	x	x								
BH38/MNV05-0.0-0.1				↓			x		x									
0.2-0.3				↓			x	x										
0.4-0.5				↓														
0.9-1.0				J														
BH39-0.0-0.1				J+B			x	x	x	x								
0.2-0.3				J+B														
0.4-0.5				J			x	x										
0.9-1.0				J														
BH27-0.0-0.1				J+B			x	x	x									
0.2-0.3				J+B														
0.4-0.5				J														
0.9-1.0				J														
BH147-0.0-0.1				J+B			x	x	x	x	x							
0.3-0.4				J+B														
0.9-1.0				J														

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

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CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
												IDENTIFICATION	NEPM/WA		
BH150-0.2-0.3	Soil	14.8.11		J+B											
0.4-0.5				↓											
0.9-1.0				↓											
BH152-0.0-0.1				J+B		x	x		y						
0.9-1.0				↓											
2.9-3.0				↓		x	x	x		x					
4.9-5.0				↓											
6.4-6.5				↓		x	x								
BH153-0.0-0.1				J+B		x	x				x				
0.4-0.5				↓											
0.9-1.0				↓											
1.9-2.0				↓		x	x			x					
2.9-3.0				↓											
3.9-4.0				↓		x	x								
5.3-5.4				↓											
BH153 FRAG01	FRAG			B					x						
QC05	Soil			J+B		x	x	x	x	x	x				
QC10				↓		x	x	x							
QC11				↓		x	x								

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

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 IMSO Forms013 - Chain of Custody - Generic

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
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SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:
												IDENTIFICATION	NEPM/NWA	
TP18-0.0-0.1	Soil	14.8.19		J+B		X	X	X	X		X			
0.4-0.5				↓										
0.9-1.0				↓										
1.4-1.5				↓		X	X	X		X				
2.1-2.2				↓										
TP21-0.0-0.1				J+B		X		X			X			
0.4-0.5				↓										
0.9-1.0				↓		X	X			X				
1.9-2.0				↓										
2.3-2.4				↓										
TP23-0.0-0.1				J+B				X			X			
0.3-0.4				↓		X	X			X				
0.9-1.0				↓										
1.9-2.0				↓										
2.9-3.0				↓		X	X	X	X	X				
3.9-4.0				↓										
TP24-0.0-0.05						X	X	X						
0.05-0.15				↓										
0.4-0.5				↓										

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

IMS0 Forms013 - Chain of Custody - Generic

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCs	TYPE OF ASBESTOS ANALYSIS		NOTES:
												IDENTIFICATION	NEPM/WA	
TP24-1.4-1.5	Soil	14.8.19		J+B		X	X		X					
2.4-2.5						X	X							
3.4-3.5						X	X							
4.1-4.2														
TP28-0.0-0.1									X					
0.4-0.5						X	X							
0.9-1.0														
1.9-2.0				J										
B1132-0.0-0.1				J+B					X	X	X			
0.4-0.5						X	X							
0.9-1.0														
1.4-1.5						X	X							
1.9-2.0				J										
TP35-0.0-0.1				J+B		X	X		X		X			
0.4-0.5														
0.9-1.0														
1.9-2.0						X	X	X						
2.9-3.0														
3.9-4.0														

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

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 IMSO Forms013 - Chain of Custody - Generic

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
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PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
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SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
												IDENTIFICATION	NEPM/NA		
TP35-4.2-4.3	Soil	14.8.19		J		X	X								
TP35FRAG01	FRAG			B					X				X		
TP35FRAG02	FRAG			B					X				X		
TP36-0.0-0.15	Soil			J+B		X	X		X						
0.4-0.5															
1.4-1.5						X	X	X		X					
2.4-2.5															
3.4-3.5															
TP36-FRAG01	FRAG			B					X				X		
TP40-0.0-0.1	Soil			J+B		X	X		X						
0.1-0.5															
0.9-1.0				J		X	X								
1.7-1.8				J											
TP41-0.0-0.1				J+B				X	X						
0.3-0.4				J+B		X	X								
1.0-1.1				J											
TP42-0.0-0.1				J+B		X	X	X	X	X	X				
QC06				J+B		X	X	X	X	X	X				
TP42-0.4-0.5				J											

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
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CHAIN OF CUSTODY

PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
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SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	PFAS	BTEX	ECOH Alkylated	Nitrate/Nitrite	Ammonia	TYPE OF ASBESTOS ANALYSIS		NOTES:
																	IDENTIFICATION	NEPM/WA	
SW01	Water	14.8.19		2xV, 1xM, 1xP, 1xMorg, 2xPFAS		x	x	x				x							* low level for water samples.
SW02						x	x	x				x							
SW03						x	x	x				x							
SW04						x	x	x				x							
QC01-SW						x	x	x				x							
RIN03				2xV, 1xM, 1xP		x	x	x											
RIN04						x	x	x											
TS				2xV															
TB				2xV															
BH103-0.0-0.1	Soil			1x PFAS								x							
BH37-0.0-0.1												x							
BH13-0.0-0.1												x							
BH59-0.0-0.1												x							
BLANK01-SW	Water			PFAS								x							
QC12	Soil					x	x												
QC01 PFAS	Water			1x PFAS								x							

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

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Melbourne

6 Monterey Road
Dandenong South Vic 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Aug 16, 2019 9:00 AM
Eurofins reference: **671628**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 14 degrees Celsius.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlll@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000
Project Name: CENTRAL COAST DSI
Project ID: 56387

Order No.:
Report #: 671628
Phone: 02 8245 0300
Fax:

Received: Aug 16, 2019 9:00 AM
Due: Aug 23, 2019
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271					X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X				X	
Perth Laboratory - NATA Site # 23736																															
30	BH17 0.0-0.1	Aug 14, 2019		Soil	S19-Au23508	X												X	X	X		X	X					X			
31	TP12 0.0-0.1	Aug 13, 2019		Soil	S19-Au23509													X				X		X							
32	TP12 0.9-1.0	Aug 13, 2019		Soil	S19-Au23510													X				X	X				X				
33	TP11 0.0-0.1	Aug 13, 2019		Soil	S19-Au23511	X																									
34	TP11 0.4-0.5	Aug 13, 2019		Soil	S19-Au23512													X	X			X		X							
35	TP11 1.4-1.5	Aug 13, 2019		Soil	S19-Au23513													X				X		X							
36	TP11 1.9-2.0	Aug 13, 2019		Soil	S19-Au23514													X				X		X							
37	TP09 0.0-0.1	Aug 13, 2019		Soil	S19-Au23515	X												X	X	X		X		X							
38	TP09 0.4-0.5	Aug 13, 2019		Soil	S19-Au23516																		X	X			X				
39	TP09 3.9-4.0	Aug 13, 2019		Soil	S19-Au23517				X								X							X				X			
40	TP09 4.4-4.5	Aug 13, 2019		Soil	S19-Au23518													X				X		X							
41	TP10 0.0-0.1	Aug 13, 2019		Soil	S19-Au23519	X												X	X			X	X				X				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																										X	X	X					
Perth Laboratory - NATA Site # 23736																																	
42	TP10 1.4-1.5	Aug 13, 2019		Soil	S19-Au23520														X				X		X								
43	TP10 2.9-3.0	Aug 13, 2019		Soil	S19-Au23521																		X		X								
44	TP144 0.0-0.1	Aug 13, 2019		Soil	S19-Au23522		X												X	X			X	X	X			X					
45	TP144 0.9-1.0	Aug 13, 2019		Soil	S19-Au23523														X				X	X	X			X					
46	TP144 1.9-2.0	Aug 13, 2019		Soil	S19-Au23524														X				X		X								
47	TP144 2.9-3.0	Aug 13, 2019		Soil	S19-Au23525		X												X		X		X		X								
48	TP146 0.0-0.1	Aug 13, 2019		Soil	S19-Au23526														X	X	X		X	X	X			X					
49	TP146 0.3-0.4	Aug 13, 2019		Soil	S19-Au23527														X	X			X	X	X			X					
50	TP146 0.9-1.0	Aug 13, 2019		Soil	S19-Au23528														X				X		X								
51	TP146 1.9-2.0	Aug 13, 2019		Soil	S19-Au23529														X				X		X								
52	TP145 0.0-0.1	Aug 13, 2019		Soil	S19-Au23530														X	X			X		X								
53	TP145 0.4-0.5	Aug 13, 2019		Soil	S19-Au23531		X																	X	X			X					

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	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
65	BH38/MW05 0.2-0.3	Aug 13, 2019														X				X										
66	BH39 0.0-0.1	Aug 13, 2019														X				X		X	X			X				
67	BH39 0.4-0.5	Aug 13, 2019														X				X		X	X							
68	BH27 0.0-0.1	Aug 13, 2019														X				X		X	X			X				
69	BH147 0.0-0.1	Aug 13, 2019														X	X			X		X	X			X				
70	BH152 0.0-0.1	Aug 14, 2019														X				X		X	X							
71	BH152 2.9-3.0	Aug 14, 2019							X				X	X		X		X		X		X	X		X	X				
72	BH152 6.4-6.5	Aug 14, 2019														X				X		X	X							
73	BH153 0.0-0.1	Aug 14, 2019														X	X			X		X	X							
74	BH153 1.9-2.0	Aug 14, 2019														X		X		X		X	X							
75	BH153 3.9-4.0	Aug 14, 2019														X				X		X	X							

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Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X			X			
Perth Laboratory - NATA Site # 23736																																
76	BH153 FRAG-01	Aug 14, 2019	Building Materials			X																										
77	QC05	Aug 14, 2019	Soil		X												X	X	X		X		X	X			X					
78	QC10	Aug 14, 2019	Soil														X				X		X	X			X					
79	QC11	Aug 14, 2019	Soil														X				X		X	X								
80	TP54 0.0-0.1	Aug 14, 2019	Soil		X												X				X		X	X			X					
81	TP54 1.4-1.5	Aug 14, 2019	Soil														X				X		X	X								
82	QC08	Aug 14, 2019	Soil														X				X		X	X								
83	TP55 0.0-0.1	Aug 14, 2019	Soil														X	X			X		X	X								
84	TP55 0.9-1.0	Aug 14, 2019	Soil														X				X		X	X								
85	TP151 0.0-0.1	Aug 14, 2019	Soil					X								X	X	X	X		X		X	X			X	X				
86	TP151 0.9-1.0	Aug 14, 2019	Soil													X					X		X	X			X	X				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
87	TP154 0.0-0.1	Aug 14, 2019		Soil	S19-Au23565	X																											
88	QC09	Aug 14, 2019		Soil	S19-Au23566														X		X				X								
89	QC12	Aug 14, 2019		Soil	S19-Au23567														X						X								
90	TP18 0.0-0.1	Aug 14, 2019		Soil	S19-Au23568	X													X	X				X	X			X					
91	TP18 1.4-1.5	Aug 14, 2019		Soil	S19-Au23569														X		X			X	X			X					
92	TP21 0.0-0.1	Aug 14, 2019		Soil	S19-Au23570	X														X					X								
93	TP21 0.9-1.0	Aug 14, 2019		Soil	S19-Au23571															X		X			X								
94	TP23 0.0-0.1	Aug 14, 2019		Soil	S19-Au23572	X														X					X								
95	TP23 0.3-0.4	Aug 14, 2019		Soil	S19-Au23573															X		X			X								
96	TP23 2.9-3.0	Aug 14, 2019		Soil	S19-Au23574	X														X		X		X	X			X					
97	TP24 0.0-0.05	Aug 14, 2019		Soil	S19-Au23575	X														X					X								
98	TP24 1.4-1.5	Aug 14, 2019		Soil	S19-Au23576	X														X		X			X								

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																										X	X	X			X		
Perth Laboratory - NATA Site # 23736																																	
110	TP36 0.0-0.15	Aug 14, 2019		Soil	S19-Au23588		X												X			X			X								
111	TP36 1.4-1.5	Aug 14, 2019		Soil	S19-Au23589														X		X	X		X	X			X					
112	TP36 FRAG01	Aug 14, 2019		Building Materials	S19-Au23590			X																									
113	TP40 0.0-0.1	Aug 14, 2019		Soil	S19-Au23591		X												X			X			X								
114	TP40 0.9-1.0	Aug 14, 2019		Soil	S19-Au23592														X			X		X									
115	TP41 0.0-0.1	Aug 14, 2019		Soil	S19-Au23593		X																	X	X			X					
116	TP41 0.3-0.4	Aug 14, 2019		Soil	S19-Au23594														X			X		X									
117	TP42 0.0-0.1	Aug 14, 2019		Soil	S19-Au23595		X												X	X	X	X		X	X			X					
118	QC06	Aug 14, 2019		Soil	S19-Au23596		X												X	X	X	X		X	X			X					
119	SW01	Aug 14, 2019		Water	S19-Au23597	X			X				X	X		X						X	X	X				X		X	X		
120	SW02	Aug 14, 2019		Water	S19-Au23598	X			X				X	X		X						X	X	X				X		X	X		

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - W/A guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217					X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X						
Perth Laboratory - NATA Site # 23736																															
247	QC07	Aug 14, 2019	Soil														X				X										
Test Counts				5	38	4	5	2	115	3	5	5	3	3	5	2	99	29	23	5	110	2	45	115	115	3	45	2	13	7	

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill
Report 671628-AID
Project Name CENTRAL COAST DSI
Project ID 56387
Received Date Aug 16, 2019
Date Reported Aug 23, 2019

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name CENTRAL COAST DSI
Project ID 56387
Date Sampled Aug 13, 2019 to Aug 14, 2019
Report 671628-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH22 0.0-0.1	19-Au23479	Aug 14, 2019	Approximate Sample 308g Sample consisted of: Brown coarse-grained sandy soil, rocks and sandstone	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH25/MW04 0.0-0.1	19-Au23481	Aug 14, 2019	Approximate Sample 387g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH29 0.0-0.1	19-Au23486	Aug 14, 2019	Approximate Sample 406g Sample consisted of: Brown coarse-grained sandy soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH150 0.0-0.1	19-Au23498	Aug 14, 2019	Approximate Sample 307g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH004/MW03 0.2-0.3	19-Au23500	Aug 14, 2019	Approximate Sample 504g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH005 0.0-0.1	19-Au23502	Aug 14, 2019	Approximate Sample 212g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH15 0.0-0.1	19-Au23505	Aug 14, 2019	Approximate Sample 386g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH17 0.0-0.1	19-Au23508	Aug 14, 2019	Approximate Sample 458g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP11 0.0-0.1	19-Au23511	Aug 13, 2019	Approximate Sample 634g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09 0.0-0.1	19-Au23515	Aug 13, 2019	Approximate Sample 609g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP10 0.0-0.1	19-Au23519	Aug 13, 2019	Approximate Sample 592g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP144 0.0-0.1	19-Au23522	Aug 13, 2019	Approximate Sample 608g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP144 2.9-3.0	19-Au23525	Aug 13, 2019	Approximate Sample 788g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP145 0.4-0.5	19-Au23531	Aug 13, 2019	Approximate Sample 679g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP19 0.0-0.1	19-Au23535	Aug 13, 2019	Approximate Sample 531g Sample consisted of: Dark brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA03	19-Au23541	Aug 13, 2019	Approximate Sample 422g Sample consisted of: Brown fine-grained sandy soil	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH38/MW05 0.0-0.1	19-Au23542	Aug 13, 2019	Approximate Sample 474g Sample consisted of: Grey coarse-grained soil, fragments of bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH39 0.0-0.1	19-Au23544	Aug 13, 2019	Approximate Sample 439g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH27 0.0-0.1	19-Au23546	Aug 13, 2019	Approximate Sample 506g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH147 0.0-0.1	19-Au23547	Aug 13, 2019	Approximate Sample 369g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH152 0.0-0.1	19-Au23548	Aug 14, 2019	Approximate Sample 373g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH153 FRAG-01	19-Au23554	Aug 14, 2019	Approximate Sample 1g / 20x10x4mm Sample consisted of: Grey fibre cement fragments	Chrysotile asbestos detected.
QC05	19-Au23555	Aug 14, 2019	Approximate Sample 407g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP54 0.0-0.1	19-Au23558	Aug 14, 2019	Approximate Sample 745g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP154 0.0-0.1	19-Au23565	Aug 14, 2019	Approximate Sample 655g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP18 0.0-0.1	19-Au23568	Aug 14, 2019	Approximate Sample 795g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP21 0.0-0.1	19-Au23570	Aug 14, 2019	Approximate Sample 790g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP23 0.0-0.1	19-Au23572	Aug 14, 2019	Approximate Sample 685g Sample consisted of: Brown coarse-grained sandy soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP23 2.9-3.0	19-Au23574	Aug 14, 2019	Approximate Sample 731g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP24 0.0-0.05	19-Au23575	Aug 14, 2019	Approximate Sample 519g Sample consisted of: Dark brown fine-grained sandy soil and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP24 1.4-1.5	19-Au23576	Aug 14, 2019	Approximate Sample 798g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP28 0.0-0.1	19-Au23578	Aug 14, 2019	Approximate Sample 792g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH32 0.0-0.1	19-Au23580	Aug 14, 2019	Approximate Sample 232g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP35 0.0-0.1	19-Au23583	Aug 14, 2019	Approximate Sample 690g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP35 FRAG01	19-Au23586	Aug 14, 2019	Approximate Sample 33g / 55x40x5mm Sample consisted of: Grey fibre cement fragments	Chrysotile and amosite asbestos detected.
TP35 FRAG02	19-Au23587	Aug 14, 2019	Approximate Sample 85g / 120x80x5mm Sample consisted of: Grey assorted fibre cement fragments	Chrysotile and amosite asbestos detected.
TP36 0.0-0.15	19-Au23588	Aug 14, 2019	Approximate Sample 734g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP36 FRAG01	19-Au23590	Aug 14, 2019	Approximate Sample 75g / 110x90x4mm Sample consisted of: Grey fibre cement fragments	Chrysotile and amosite asbestos detected.
TP40 0.0-0.1	19-Au23591	Aug 14, 2019	Approximate Sample 790g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP41 0.0-0.1	19-Au23593	Aug 14, 2019	Approximate Sample 625g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP42 0.0-0.1	19-Au23595	Aug 14, 2019	Approximate Sample 713g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC06	19-Au23596	Aug 14, 2019	Approximate Sample 689g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Aug 22, 2019	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Aug 22, 2019	Indefinite

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatiles Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
External Laboratory																																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																												
1	BH22 0.0-0.1	Aug 14, 2019		Soil	S19-Au23479		X				X				X	X			X	X								X					
2	BH22 0.9-1.0	Aug 14, 2019		Soil	S19-Au23480														X					X	X			X					
3	BH25/MW04 0.0-0.1	Aug 14, 2019		Soil	S19-Au23481		X												X				X	X				X					
4	BH25/MW04 0.2-0.3	Aug 14, 2019		Soil	S19-Au23482																					X						X	
5	BH25/MW04 0.9-1.0	Aug 14, 2019		Soil	S19-Au23483														X				X	X				X					
6	BH25/MW04 5.5-5.6	Aug 14, 2019		Soil	S19-Au23484						X				X	X			X				X				X						
7	BH26 0.0-0.1	Aug 14, 2019		Soil	S19-Au23485														X	X			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
8	BH29 0.0-0.1	Aug 14, 2019		Soil	S19-Au23486		X												X	X	X												
9	BH29 0.4-0.5	Aug 14, 2019		Soil	S19-Au23487														X														
10	QC01_PFAS	Aug 14, 2019		Soil	S19-Au23488																					X							
11	BH30 0.0-0.1	Aug 14, 2019		Soil	S19-Au23489														X	X	X				X								
12	BH30 0.4-0.5	Aug 14, 2019		Soil	S19-Au23490														X					X	X			X					
13	BH31 0.0-0.1	Aug 14, 2019		Soil	S19-Au23491														X					X	X			X					
14	BH31 1.4-1.5	Aug 14, 2019		Soil	S19-Au23492														X					X									
15	BH34 0.0-0.1	Aug 14, 2019		Soil	S19-Au23493														X	X				X									
16	BH34 0.9-1.0	Aug 14, 2019		Soil	S19-Au23494														X					X									
17	BH148 0.0-0.1	Aug 14, 2019		Soil	S19-Au23495														X					X									
18	BH148 0.4-0.5	Aug 14, 2019		Soil	S19-Au23496														X					X									
19	BH149 0.0-0.1	Aug 14, 2019		Soil	S19-Au23497														X					X									

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Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
20	BH150 0.0-0.1	Aug 14, 2019		Soil	S19-Au23498	X													X			X											
21	BH004/MW03 0.0-0.1	Aug 14, 2019		Soil	S19-Au23499														X	X		X		X					X				
22	BH004/MW03 0.2-0.3	Aug 14, 2019		Soil	S19-Au23500	X													X	X	X	X		X	X				X				
23	BH004/MW03 0.4-0.5	Aug 14, 2019		Soil	S19-Au23501														X	X		X		X									
24	BH005 0.0-0.1	Aug 14, 2019		Soil	S19-Au23502	X													X			X		X									
25	BH014 0.0-0.1	Aug 14, 2019		Soil	S19-Au23503						X																						
26	BH014 0.2-0.3	Aug 14, 2019		Soil	S19-Au23504														X			X		X	X				X				
27	BH15 0.0-0.1	Aug 14, 2019		Soil	S19-Au23505	X													X			X		X									
28	BH15 0.4-0.5	Aug 14, 2019		Soil	S19-Au23506														X			X		X									
29	BH16 0.0-0.1	Aug 14, 2019		Soil	S19-Au23507														X			X		X									

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Melbourne Laboratory - NATA Site # 1254 & 14271					X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X					
Perth Laboratory - NATA Site # 23736																															
30	BH17 0.0-0.1	Aug 14, 2019		Soil	S19-Au23508	X												X	X	X	X	X	X	X							
31	TP12 0.0-0.1	Aug 13, 2019		Soil	S19-Au23509													X			X		X								
32	TP12 0.9-1.0	Aug 13, 2019		Soil	S19-Au23510													X			X	X	X								
33	TP11 0.0-0.1	Aug 13, 2019		Soil	S19-Au23511	X																									
34	TP11 0.4-0.5	Aug 13, 2019		Soil	S19-Au23512													X	X		X		X								
35	TP11 1.4-1.5	Aug 13, 2019		Soil	S19-Au23513													X			X		X								
36	TP11 1.9-2.0	Aug 13, 2019		Soil	S19-Au23514													X			X		X								
37	TP09 0.0-0.1	Aug 13, 2019		Soil	S19-Au23515	X												X	X	X	X		X								
38	TP09 0.4-0.5	Aug 13, 2019		Soil	S19-Au23516																		X	X			X				
39	TP09 3.9-4.0	Aug 13, 2019		Soil	S19-Au23517					X								X					X								
40	TP09 4.4-4.5	Aug 13, 2019		Soil	S19-Au23518													X			X		X								
41	TP10 0.0-0.1	Aug 13, 2019		Soil	S19-Au23519	X												X	X		X		X	X			X				

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Project Name: CENTRAL COAST DSI	Fax:	Contact Name: Ryan Lill
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X																										
Brisbane Laboratory - NATA Site # 20794																									X	X	X							
Perth Laboratory - NATA Site # 23736																																		
42	TP10 1.4-1.5	Aug 13, 2019		Soil	S19-Au23520														X			X		X										
43	TP10 2.9-3.0	Aug 13, 2019		Soil	S19-Au23521																	X		X										
44	TP144 0.0-0.1	Aug 13, 2019		Soil	S19-Au23522		X												X	X		X	X	X				X						
45	TP144 0.9-1.0	Aug 13, 2019		Soil	S19-Au23523														X			X	X	X				X						
46	TP144 1.9-2.0	Aug 13, 2019		Soil	S19-Au23524														X			X		X										
47	TP144 2.9-3.0	Aug 13, 2019		Soil	S19-Au23525		X												X	X		X		X										
48	TP146 0.0-0.1	Aug 13, 2019		Soil	S19-Au23526														X	X	X	X		X	X			X						
49	TP146 0.3-0.4	Aug 13, 2019		Soil	S19-Au23527														X	X		X		X	X			X						
50	TP146 0.9-1.0	Aug 13, 2019		Soil	S19-Au23528														X			X		X										
51	TP146 1.9-2.0	Aug 13, 2019		Soil	S19-Au23529														X			X		X										
52	TP145 0.0-0.1	Aug 13, 2019		Soil	S19-Au23530														X	X		X		X										
53	TP145 0.4-0.5	Aug 13, 2019		Soil	S19-Au23531		X																	X	X			X						

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																									X	X	X					
Perth Laboratory - NATA Site # 23736																																
54	TP145 0.9-1.0	Aug 13, 2019		Soil	S19-Au23532																X	X		X								
55	TP145 2.4-2.5	Aug 13, 2019		Soil	S19-Au23533														X			X	X					X				
56	TP145 3.4-3.5	Aug 13, 2019		Soil	S19-Au23534														X			X	X					X				
57	TP19 0.0-0.1	Aug 13, 2019		Soil	S19-Au23535		X												X			X	X					X				
58	TP19 0.4-0.5	Aug 13, 2019		Soil	S19-Au23536														X	X	X	X	X									
59	TP19 1.4-1.5	Aug 13, 2019		Soil	S19-Au23537														X			X	X					X				
60	TP19 2.4-2.5	Aug 13, 2019		Soil	S19-Au23538														X			X	X									
61	QC04	Aug 13, 2019		Soil	S19-Au23539														X			X	X									
62	BH70/MW08 0.0-0.1	Aug 13, 2019		Soil	S19-Au23540														X			X	X					X		X		
63	QA03	Aug 13, 2019		Soil	S19-Au23541		X												X			X	X					X				
64	BH38/MW05 0.0-0.1	Aug 13, 2019		Soil	S19-Au23542		X												X			X	X									

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Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
65	BH38/MW05 0.2-0.3	Aug 13, 2019														X				X			X							
66	BH39 0.0-0.1	Aug 13, 2019														X				X		X	X			X				
67	BH39 0.4-0.5	Aug 13, 2019														X				X		X	X							
68	BH27 0.0-0.1	Aug 13, 2019														X				X		X	X			X				
69	BH147 0.0-0.1	Aug 13, 2019														X	X			X		X	X			X				
70	BH152 0.0-0.1	Aug 14, 2019														X				X		X	X							
71	BH152 2.9-3.0	Aug 14, 2019							X				X	X		X		X		X		X	X		X	X				
72	BH152 6.4-6.5	Aug 14, 2019														X				X		X								
73	BH153 0.0-0.1	Aug 14, 2019														X	X			X		X								
74	BH153 1.9-2.0	Aug 14, 2019														X		X		X		X								
75	BH153 3.9-4.0	Aug 14, 2019														X				X		X								

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Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671628	Due:	Aug 23, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)			
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217					X	X																											
Brisbane Laboratory - NATA Site # 20794																								X	X	X							
Perth Laboratory - NATA Site # 23736																																	
76	BH153 FRAG-01	Aug 14, 2019	Building Materials			X																											
77	QC05	Aug 14, 2019	Soil		X												X	X	X		X		X	X			X						
78	QC10	Aug 14, 2019	Soil														X				X		X	X			X						
79	QC11	Aug 14, 2019	Soil														X				X		X	X									
80	TP54 0.0-0.1	Aug 14, 2019	Soil		X												X				X		X	X			X						
81	TP54 1.4-1.5	Aug 14, 2019	Soil														X				X		X	X									
82	QC08	Aug 14, 2019	Soil														X				X		X	X									
83	TP55 0.0-0.1	Aug 14, 2019	Soil														X	X			X		X	X									
84	TP55 0.9-1.0	Aug 14, 2019	Soil														X				X		X	X									
85	TP151 0.0-0.1	Aug 14, 2019	Soil													X	X	X	X		X		X	X			X	X					
86	TP151 0.9-1.0	Aug 14, 2019	Soil														X				X		X	X			X						

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X						
Perth Laboratory - NATA Site # 23736																																
87	TP154 0.0-0.1	Aug 14, 2019	Soil	S19-Au23565	X																											
88	QC09	Aug 14, 2019	Soil	S19-Au23566													X		X		X											
89	QC12	Aug 14, 2019	Soil	S19-Au23567													X				X											
90	TP18 0.0-0.1	Aug 14, 2019	Soil	S19-Au23568	X												X	X			X		X	X			X					
91	TP18 1.4-1.5	Aug 14, 2019	Soil	S19-Au23569													X		X		X		X	X			X					
92	TP21 0.0-0.1	Aug 14, 2019	Soil	S19-Au23570	X													X			X		X									
93	TP21 0.9-1.0	Aug 14, 2019	Soil	S19-Au23571													X		X		X		X									
94	TP23 0.0-0.1	Aug 14, 2019	Soil	S19-Au23572	X													X					X									
95	TP23 0.3-0.4	Aug 14, 2019	Soil	S19-Au23573													X		X		X		X									
96	TP23 2.9-3.0	Aug 14, 2019	Soil	S19-Au23574	X												X		X		X		X	X			X					
97	TP24 0.0-0.05	Aug 14, 2019	Soil	S19-Au23575	X												X				X		X									
98	TP24 1.4-1.5	Aug 14, 2019	Soil	S19-Au23576	X												X		X		X		X									

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
99	TP24 3.4-3.5	Aug 14, 2019														X				X			X						
100	TP28 0.0-0.1	Aug 14, 2019																											
101	TP28 0.4-0.5	Aug 14, 2019														X				X			X						
102	BH32 0.0-0.1	Aug 14, 2019															X	X					X						
103	TP32 0.4-0.5	Aug 14, 2019														X				X			X						
104	TP32 1.4-1.5	Aug 14, 2019														X				X			X						
105	TP35 0.0-0.1	Aug 14, 2019														X	X			X			X						
106	TP35 1.9-2.0	Aug 14, 2019														X				X		X	X			X			
107	TP35 4.2-4.3	Aug 14, 2019														X				X			X						
108	TP35 FRAG01	Aug 14, 2019																											
109	TP35 FRAG02	Aug 14, 2019																											

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Project ID:	56387	Fax:		Contact Name:	Ryan Lill
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																										X	X	X					
Perth Laboratory - NATA Site # 23736																																	
110	TP36 0.0-0.15	Aug 14, 2019		Soil	S19-Au23588	X												X				X		X									
111	TP36 1.4-1.5	Aug 14, 2019		Soil	S19-Au23589													X		X		X		X				X					
112	TP36 FRAG01	Aug 14, 2019		Building Materials	S19-Au23590			X																									
113	TP40 0.0-0.1	Aug 14, 2019		Soil	S19-Au23591	X												X				X		X									
114	TP40 0.9-1.0	Aug 14, 2019		Soil	S19-Au23592													X				X		X									
115	TP41 0.0-0.1	Aug 14, 2019		Soil	S19-Au23593	X																		X	X			X					
116	TP41 0.3-0.4	Aug 14, 2019		Soil	S19-Au23594													X				X		X									
117	TP42 0.0-0.1	Aug 14, 2019		Soil	S19-Au23595	X												X	X	X		X		X	X			X					
118	QC06	Aug 14, 2019		Soil	S19-Au23596		X											X	X	X		X		X	X			X					
119	SW01	Aug 14, 2019		Water	S19-Au23597	X			X				X	X		X						X	X	X				X		X	X	X	X
120	SW02	Aug 14, 2019		Water	S19-Au23598	X			X				X	X		X						X	X	X				X		X	X	X	X

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X						
Perth Laboratory - NATA Site # 23736																																
121	SW03	Aug 14, 2019	Water	S19-Au23599	X		X				X	X		X					X	X		X					X		X	X	X	
122	SW04	Aug 14, 2019	Water	S19-Au23600	X		X				X	X		X					X	X		X					X		X	X	X	
123	QC01_SW	Aug 14, 2019	Water	S19-Au23601	X		X				X	X		X					X	X		X					X		X	X	X	
124	RIN03	Aug 14, 2019	Water	S19-Au23602																	X						X				X	
125	RIN04	Aug 14, 2019	Water	S19-Au23603																	X						X				X	
126	TS	Aug 14, 2019	Water	S19-Au23604																		X										
127	TB	Aug 14, 2019	Water	S19-Au23605																		X										
128	BH103 0.0-0.1	Aug 14, 2019	Soil	S19-Au23606																				X							X	
129	BH37 0.0-0.1	Aug 14, 2019	Soil	S19-Au23607																				X							X	
130	BH13 0.0-0.1	Aug 14, 2019	Soil	S19-Au23608																				X							X	
131	BH59 0.0-0.1	Aug 14, 2019	Soil	S19-Au23609																				X							X	
132	BH17 0.9-1.0	Aug 14, 2019	Soil	S19-Au23610						X																						

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)								
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
Sydney Laboratory - NATA Site # 18217				X	X																																
Brisbane Laboratory - NATA Site # 20794																							X	X	X				X								
Perth Laboratory - NATA Site # 23736																																					
133	BH22 0.4-0.5	Aug 14, 2019																																			
134	BH22 1.4-1.5	Aug 14, 2019																																			
135	BH22 2.4-2.5	Aug 14, 2019																																			
136	BH22 3.4-3.5	Aug 14, 2019																																			
137	BH25/MW04 0.4-0.5	Aug 14, 2019																																			
138	BH26 0.2-0.3	Aug 14, 2019																																			
139	BH26 0.4-0.5	Aug 14, 2019																																			
140	BH29 0.9-1.0	Aug 14, 2019																																			
141	BH30 0.9-1.0	Aug 14, 2019																																			
142	BH30 1.4-1.5	Aug 14, 2019																																			
143	BH31 0.4-0.5	Aug 14, 2019																																			

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Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
144	BH34 0.4-0.5	Aug 14, 2019																												
145	BH34 1.4-1.5	Aug 14, 2019																												
146	BH34 2.4-2.5	Aug 14, 2019																												
147	BH34 3.4-3.5	Aug 14, 2019																												
148	BH148 0.2-0.3	Aug 14, 2019																												
149	BH149 0.2-0.3	Aug 14, 2019																												
150	BH04/MW03 0.9-1.0	Aug 14, 2019																												
151	BH05 0.2-0.3	Aug 14, 2019																												
152	BH05 0.4-0.5	Aug 14, 2019																												
153	BH014 0.4-0.5	Aug 14, 2019																												
154	BH014 0.9-1.0	Aug 14, 2019																												

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Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																										
Brisbane Laboratory - NATA Site # 20794																							X	X	X					X	
Perth Laboratory - NATA Site # 23736																															
155	BH15 0.2-0.3	Aug 14, 2019																													
156	BH16 0.2-0.3	Aug 14, 2019																													
157	BH16 0.4-0.5	Aug 14, 2019																													
158	BH17 0.4-0.5	Aug 14, 2019																													
159	TP12 0.4-0.5	Aug 13, 2019																													
160	TP11 0.9-1.0	Aug 13, 2019																													
161	TP09 0.9-1.0	Aug 13, 2019																													
162	TP09 1.9-2.0	Aug 13, 2019																													
163	TP09 2.9-3.0	Aug 13, 2019																													
164	TP10 0.4-0.5	Aug 13, 2019																													
165	TP10 0.9-1.0	Aug 13, 2019																													
166	TP10 2.4-2.5	Aug 13, 2019																													

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Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
167	TP144 0.4-0.5	Aug 13, 2019																												
168	TP144 1.4-1.5	Aug 13, 2019																												
169	TP144 2.4-2.5	Aug 13, 2019																												
170	TP144 3.4-3.5	Aug 13, 2019																												
171	TP144 3.9-4.0	Aug 13, 2019																												
172	TP144 4.2-4.3	Aug 13, 2019																												
173	TP146 1.4-1.5	Aug 13, 2019																												
174	TP146 2.4-2.5	Aug 13, 2019																												
175	TP146 2.9-3.0	Aug 13, 2019																												
176	TP146 3.4-3.5	Aug 13, 2019																												
177	TP146 3.9-4.0	Aug 13, 2019																												
178	TP145 1.4-1.5	Aug 13, 2019																												

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
179	TP145 1.9-2.0	Aug 13, 2019		Soil	S19-Au23658						X																						
180	TP145 2.9-3.0	Aug 13, 2019		Soil	S19-Au23659						X																						
181	TP145 3.9-4.0	Aug 13, 2019		Soil	S19-Au23660						X																						
182	TP19 0.2-0.3	Aug 13, 2019		Soil	S19-Au23661						X																						
183	TP19 0.9-1.0	Aug 13, 2019		Soil	S19-Au23662						X																						
184	TP19 1.9-2.0	Aug 13, 2019		Soil	S19-Au23663						X																						
185	TP19 2.9-3.0	Aug 13, 2019		Soil	S19-Au23664						X																						
186	BH70/MW08 0.2-0.3	Aug 13, 2019		Soil	S19-Au23665						X																						
187	BH70/MW08 0.4-0.5	Aug 13, 2019		Soil	S19-Au23666						X																						
188	BH38/MW05 0.4-0.5	Aug 13, 2019		Soil	S19-Au23667						X																						

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
189	BH38/MW05 0.9-1.0	Aug 13, 2019							X																				
190	BH39 0.2-0.3	Aug 13, 2019						X																					
191	BH39 0.9-1.0	Aug 13, 2019						X																					
192	BH27 0.2-0.3	Aug 13, 2019						X																					
193	BH27 0.4-0.5	Aug 13, 2019						X																					
194	BH27 0.9-1.0	Aug 13, 2019						X																					
195	BH147 0.3-0.4	Aug 13, 2019						X																					
196	BH147 0.9-1.0	Aug 13, 2019						X																					
197	BH150 0.2-0.3	Aug 14, 2019						X																					
198	BH150 0.4-0.5	Aug 14, 2019						X																					
199	BH150 0.9-1.0	Aug 14, 2019						X																					

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	Phone: 02 8245 0300	Priority: 5 Day
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Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217				X	X																										
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X			
Perth Laboratory - NATA Site # 23736																															
200	BH152 0.9-1.0	Aug 14, 2019																													
201	BH152 4.9-5.0	Aug 14, 2019																													
202	BH153 0.4-0.5	Aug 14, 2019																													
203	BH153 0.9-1.0	Aug 14, 2019																													
204	BH153 2.9-3.0	Aug 14, 2019																													
205	BH153 5.3-5.4	Aug 14, 2019																													
206	TP42 0.7-0.8	Aug 14, 2019																													
207	TP54 0.4-0.5	Aug 14, 2019																													
208	TP54 0.9-1.0	Aug 14, 2019																													
209	TP55 0.4-0.5	Aug 14, 2019																													
210	TP151 0.4-0.5	Aug 14, 2019																													
211	TP151 0.9-1.0	Aug 14, 2019																													

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X																										
Brisbane Laboratory - NATA Site # 20794																									X	X	X							
Perth Laboratory - NATA Site # 23736																																		
212	TP151 1.3-1.4	Aug 14, 2019		Soil	S19-Au23691						X																							
213	TP154 0.4-0.5	Aug 14, 2019		Soil	S19-Au23692						X																							
214	TP154 0.9-1.4	Aug 14, 2019		Soil	S19-Au23693						X																							
215	TP154 2.1-2.2	Aug 14, 2019		Soil	S19-Au23694						X																							
216	TP18 0.4-0.5	Aug 14, 2019		Soil	S19-Au23695						X																							
217	TP18 0.9-1.0	Aug 14, 2019		Soil	S19-Au23696						X																							
218	TP18 2.1-2.2	Aug 14, 2019		Soil	S19-Au23697						X																							
219	TP21 0.4-0.5	Aug 14, 2019		Soil	S19-Au23698						X																							
220	TP21 1.9-2.0	Aug 14, 2019		Soil	S19-Au23699						X																							
221	TP21 2.3-2.4	Aug 14, 2019		Soil	S19-Au23700						X																							
222	TP23 0.9-1.0	Aug 14, 2019		Soil	S19-Au23701						X																							
223	TP23 1.9-2.0	Aug 14, 2019		Soil	S19-Au23702						X																							

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																									X	X	X				X	
Perth Laboratory - NATA Site # 23736																																
224	TP23 3.9-4.0	Aug 14, 2019		Soil	S19-Au23703						X																					
225	TP24 0.05-0.15	Aug 14, 2019		Soil	S19-Au23704						X																					
226	TP24 0.4-0.5	Aug 14, 2019		Soil	S19-Au23705						X																					
227	TP24 2.4-2.5	Aug 14, 2019		Soil	S19-Au23706						X																					
228	TP24 4.1-4.2	Aug 14, 2019		Soil	S19-Au23707						X																					
229	TP28 0.9-1.0	Aug 14, 2019		Soil	S19-Au23708						X																					
230	TP28 1.9-2.0	Aug 14, 2019		Soil	S19-Au23709						X																					
231	BH32 0.9-1.0	Aug 14, 2019		Soil	S19-Au23710						X																					
232	BH32 1.9-2.0	Aug 14, 2019		Soil	S19-Au23711						X																					
233	TP35 0.4-0.5	Aug 14, 2019		Soil	S19-Au23712						X																					
234	TP35 0.9-1.0	Aug 14, 2019		Soil	S19-Au23713						X																					

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
235	TP35 2.9-3.0	Aug 14, 2019																												
236	TP35 3.9-4.0	Aug 14, 2019																												
237	TP36 0.4-0.5	Aug 14, 2019																												
238	TP36 2.4-2.5	Aug 14, 2019																												
239	TP36 3.4-3.5	Aug 14, 2019																												
240	TP40 0.4-0.5	Aug 14, 2019																												
241	TP40 1.7-1.8	Aug 14, 2019																												
242	TP41 1.0-1.1	Aug 14, 2019																												
243	TP42 0.4-0.5	Aug 14, 2019																												
244	BH030_1.4-1.5	Aug 14, 2019																												
245	TP154 1.4-1.5	Aug 14, 2019																												
246	BLANK01-SW	Aug 14, 2019																												X

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 16, 2019 9:00 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671628	Due:	Aug 23, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - W/A guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X						
Perth Laboratory - NATA Site # 23736																																
247	QC07	Aug 14, 2019	Soil														X				X											
Test Counts				5	38	4	5	2	115	3	5	5	3	3	5	2	99	29	23	5	110	2	45	115	115	3	45	2	13	7		

Internal Quality Control Review and Glossary
General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S19-Au23479, S19-Au23481, S19-Au23486, S19-Au23498, S19-Au23502, S19-Au23505, S19-Au23508, S19-Au23541, S19-Au23542, S19-Au23544, S19-Au23547, S19-Au23548, S19-Au23555, S19-Au23580: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Sayed Abu Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217 & 14271

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: **Ryan Lill**

Report **671628-S**
 Project name **CENTRAL COAST DSI**
 Project ID **56387**
 Received Date **Aug 16, 2019**

Client Sample ID			BH22 0.0-0.1	BH22 0.9-1.0	BH25/MW04 0.0-0.1	BH25/MW04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23479	S19-Au23480	S19-Au23481	S19-Au23482
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	150	< 50	-
TRH C29-C36	50	mg/kg	-	75	150	-
TRH C10-C36 (Total)	50	mg/kg	-	225	150	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			BH22 0.0-0.1	BH22 0.9-1.0	BH25/MW04 0.0-0.1	BH25/MW04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23479	S19-Au23480	S19-Au23481	S19-Au23482
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	76	69	-
Toluene-d8 (surr.)	1	%	-	75	58	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	170	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	170	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			BH22 0.0-0.1	BH22 0.9-1.0	BH25/MW04 0.0-0.1	BH25/MW04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23479	S19-Au23480	S19-Au23481	S19-Au23482
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	62	86	85	-
p-Terphenyl-d14 (surr.)	1	%	64	84	100	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	60	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	61	-	-	-
Physical Parameters						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	20	-	-	-
Organic Matter %	0.01	% w/w	3.9	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.8	-	-	-
% Moisture	1	%	14	16	16	11

Client Sample ID			BH22 0.0-0.1	BH22 0.9-1.0	BH25/MW04 0.0-0.1	BH25/MW04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23479	S19-Au23480	S19-Au23481	S19-Au23482
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.3	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	7.5	8.1	< 5	-
Copper	5	mg/kg	9.8	5.9	< 5	-
Iron	20	mg/kg	5400	-	-	-
Lead	5	mg/kg	7.7	19	< 5	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	< 5	< 5	< 5	-
Zinc	5	mg/kg	7.7	130	< 5	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	3.6	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	90
13C5-PFPeA (surr.)	1	%	-	-	-	88
13C5-PFHxA (surr.)	1	%	-	-	-	102
13C4-PFHpA (surr.)	1	%	-	-	-	114
13C8-PFOA (surr.)	1	%	-	-	-	124
13C5-PFNA (surr.)	1	%	-	-	-	102
13C6-PFDA (surr.)	1	%	-	-	-	110
13C2-PFUnDA (surr.)	1	%	-	-	-	115
13C2-PFDoDA (surr.)	1	%	-	-	-	94
13C2-PFTeDA (surr.)	1	%	-	-	-	98
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	128
D3-N-MeFOSA (surr.)	1	%	-	-	-	98
D5-N-EtFOSA (surr.)	1	%	-	-	-	88
D7-N-MeFOSE (surr.)	1	%	-	-	-	69

Client Sample ID			BH22 0.0-0.1	BH22 0.9-1.0	BH25/MW04 0.0-0.1	BH25/MW04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23479	S19-Au23480	S19-Au23481	S19-Au23482
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D9-N-EtFOSE (surr.)	1	%	-	-	-	83
D5-N-EtFOSAA (surr.)	1	%	-	-	-	89
D3-N-MeFOSAA (surr.)	1	%	-	-	-	115
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	133
18O2-PFHxS (surr.)	1	%	-	-	-	114
13C8-PFOS (surr.)	1	%	-	-	-	142
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	INT
13C2-6:2 FTSA (surr.)	1	%	-	-	-	76
13C2-8:2 FTSA (surr.)	1	%	-	-	-	95
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			BH25/MW04 0.9-1.0	BH25/MW04 5.5-5.6	BH26 0.0-0.1	BH29 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23483	S19-Au23484	S19-Au23485	S19-Au23486
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-

Client Sample ID			BH25/MW04 0.9-1.0	BH25/MW04 5.5-5.6	BH26 0.0-0.1	BH29 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23483	S19-Au23484	S19-Au23485	S19-Au23486
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH25/MW04 0.9-1.0	BH25/MW04 5.5-5.6	BH26 0.0-0.1	BH29 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23483	S19-Au23484	S19-Au23485	S19-Au23486
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	66	-	-	-
Toluene-d8 (surr.)	1	%	52	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	72	64	70
p-Terphenyl-d14 (surr.)	1	%	78	67	65	99
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05

Client Sample ID			BH25/MW04 0.9-1.0	BH25/MW04 5.5-5.6	BH26 0.0-0.1	BH29 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23483	S19-Au23484	S19-Au23485	S19-Au23486
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	1	mg/kg	-	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	64	66
Tetrachloro-m-xylene (surr.)	1	%	-	-	64	134
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	134
Physical Properties						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	36	-	-
Organic Matter %	0.01	% w/w	-	3.6	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.3	-	-
% Moisture	1	%	12	23	6.4	7.0
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.8	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	8.5	7.3	7.7
Copper	5	mg/kg	< 5	7.9	15	5.6
Iron	20	mg/kg	-	30000	-	-
Lead	5	mg/kg	< 5	9.6	5.5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	11	5.0
Zinc	5	mg/kg	< 5	21	42	19
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	2.6	-	-

Client Sample ID			BH29 0.4-0.5 Soil	QC01_PFAS Soil	BH30 0.0-0.1 Soil	BH30 0.4-0.5 Soil
Sample Matrix			S19-Au23487	S19-Au23488	S19-Au23489	S19-Au23490
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH29 0.4-0.5	QC01_PFAS	BH30 0.0-0.1	BH30 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23487	S19-Au23488	S19-Au23489	S19-Au23490
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	72
Toluene-d8 (surr.)	1	%	-	-	-	61
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	93	-	87	89
p-Terphenyl-d14 (surr.)	1	%	107	-	128	91

Client Sample ID			BH29 0.4-0.5 Soil S19-Au23487 Aug 14, 2019	QC01_PFAS Soil S19-Au23488 Aug 14, 2019	BH30 0.0-0.1 Soil S19-Au23489 Aug 14, 2019	BH30 0.4-0.5 Soil S19-Au23490 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	80	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	79	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	80	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	79	-
% Moisture						
	1	%	9.4	11	12	7.6
Heavy Metals						
Arsenic	2	mg/kg	4.7	-	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	23	-	9.8	< 5
Copper	5	mg/kg	< 5	-	< 5	< 5
Lead	5	mg/kg	< 5	-	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	< 5	-	12	5.7

Client Sample ID			BH29 0.4-0.5 Soil S19-Au23487 Aug 14, 2019	QC01_PFAS Soil S19-Au23488 Aug 14, 2019	BH30 0.0-0.1 Soil S19-Au23489 Aug 14, 2019	BH30 0.4-0.5 Soil S19-Au23490 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	92	-	-
13C5-PFPeA (surr.)	1	%	-	124	-	-
13C5-PFHxA (surr.)	1	%	-	89	-	-
13C4-PFHpA (surr.)	1	%	-	123	-	-
13C8-PFOA (surr.)	1	%	-	119	-	-
13C5-PFNA (surr.)	1	%	-	111	-	-
13C6-PFDA (surr.)	1	%	-	99	-	-
13C2-PFUnDA (surr.)	1	%	-	115	-	-
13C2-PFDoDA (surr.)	1	%	-	91	-	-
13C2-PFTeDA (surr.)	1	%	-	96	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	-	-
13C8-FOSA (surr.)	1	%	-	132	-	-
D3-N-MeFOSA (surr.)	1	%	-	104	-	-
D5-N-EtFOSA (surr.)	1	%	-	91	-	-
D7-N-MeFOSE (surr.)	1	%	-	57	-	-
D9-N-EtFOSE (surr.)	1	%	-	97	-	-
D5-N-EtFOSAA (surr.)	1	%	-	92	-	-
D3-N-MeFOSAA (surr.)	1	%	-	120	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	109	-	-

Client Sample ID			BH29 0.4-0.5	QC01_PFAS	BH30 0.0-0.1	BH30 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23487	S19-Au23488	S19-Au23489	S19-Au23490
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
18O2-PFHxS (surr.)	1	%	-	114	-	-
13C8-PFOS (surr.)	1	%	-	129	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	< 5	-	-
13C2-4:2 FTSA (surr.)	1	%	-	96	-	-
13C2-6:2 FTSA (surr.)	1	%	-	110	-	-
13C2-8:2 FTSA (surr.)	1	%	-	75	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			BH31 0.0-0.1	BH31 1.4-1.5	BH34 0.0-0.1	BH34 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23491	S19-Au23492	S19-Au23493	S19-Au23494
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH31 0.0-0.1 Soil S19-Au23491 Aug 14, 2019	BH31 1.4-1.5 Soil S19-Au23492 Aug 14, 2019	BH34 0.0-0.1 Soil S19-Au23493 Aug 14, 2019	BH34 0.9-1.0 Soil S19-Au23494 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	70	-	-	-
Toluene-d8 (surr.)	1	%	61	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-

Client Sample ID			BH31 0.0-0.1 Soil S19-Au23491 Aug 14, 2019	BH31 1.4-1.5 Soil S19-Au23492 Aug 14, 2019	BH34 0.0-0.1 Soil S19-Au23493 Aug 14, 2019	BH34 0.9-1.0 Soil S19-Au23494 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	69	79	74	79
p-Terphenyl-d14 (surr.)	1	%	64	82	87	78
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-

Client Sample ID			BH31 0.0-0.1	BH31 1.4-1.5	BH34 0.0-0.1	BH34 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23491	S19-Au23492	S19-Au23493	S19-Au23494
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	88	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	-
% Moisture						
	1	%	12	12	8.3	33
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.5	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.6	11	7.5	< 5
Copper	5	mg/kg	8.2	< 5	10	< 5
Lead	5	mg/kg	6.8	5.9	8.5	9.1
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.0	< 5	14	< 5
Zinc	5	mg/kg	29	17	32	20

Client Sample ID			BH148 0.0-0.1	BH148 0.4-0.5	BH149 0.0-0.1	BH150 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23495	S19-Au23496	S19-Au23497	S19-Au23498
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.3
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.2
2-Fluorobiphenyl (surr.)	1	%	69	93	92	86
p-Terphenyl-d14 (surr.)	1	%	77	117	101	98
% Moisture						
	1	%	7.0	8.9	7.1	7.2

Client Sample ID			BH148 0.0-0.1	BH148 0.4-0.5	BH149 0.0-0.1	BH150 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23495	S19-Au23496	S19-Au23497	S19-Au23498
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.4	3.2	< 2	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	8.5	< 5	11
Copper	5	mg/kg	12	< 5	< 5	8.5
Lead	5	mg/kg	12	< 5	< 5	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	< 5	< 5	11
Zinc	5	mg/kg	24	< 5	6.2	40

Client Sample ID			BH004/MW03	BH004/MW03	BH004/MW03	BH005 0.0-0.1
Sample Matrix			0.0-0.1	0.2-0.3	0.4-0.5	Soil
Eurofins Sample No.			Soil	Soil	Soil	Soil
Date Sampled			S19-Au23499	S19-Au23500	S19-Au23501	S19-Au23502
Test/Reference	LOR	Unit	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	82	< 50	-	-
TRH C29-C36	50	mg/kg	110	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	192	< 50	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			BH004/MW03 0.0-0.1	BH004/MW03 0.2-0.3	BH004/MW03 0.4-0.5	BH005 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23499	S19-Au23500	S19-Au23501	S19-Au23502
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	73	77	-	-
Toluene-d8 (surr.)	1	%	55	56	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	140	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	140	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH004/MW03 0.0-0.1	BH004/MW03 0.2-0.3	BH004/MW03 0.4-0.5	BH005 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23499	S19-Au23500	S19-Au23501	S19-Au23502
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	115	113	113	90
p-Terphenyl-d14 (surr.)	1	%	110	106	109	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	< 1	< 1	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	121	127	132	-
Tetrachloro-m-xylene (surr.)	1	%	96	93	96	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			BH004/MW03 0.0-0.1	BH004/MW03 0.2-0.3	BH004/MW03 0.4-0.5	BH005 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23499	S19-Au23500	S19-Au23501	S19-Au23502
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	127	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	93	-	-
% Moisture						
	1	%	5.5	7.3	7.1	9.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.7	5.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.5	8.8	15	5.9
Copper	5	mg/kg	5.5	< 5	< 5	< 5
Lead	5	mg/kg	7.2	7.0	12	5.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.0	< 5	< 5	< 5
Zinc	5	mg/kg	33	25	6.5	14

Client Sample ID			BH014 0.2-0.3	BH15 0.0-0.1	BH15 0.4-0.5	BH16 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23504	S19-Au23505	S19-Au23506	S19-Au23507
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH014 0.2-0.3 Soil S19-Au23504 Aug 14, 2019	BH15 0.0-0.1 Soil S19-Au23505 Aug 14, 2019	BH15 0.4-0.5 Soil S19-Au23506 Aug 14, 2019	BH16 0.0-0.1 Soil S19-Au23507 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	85	-	-	-
Toluene-d8 (surr.)	1	%	84	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			BH014 0.2-0.3	BH15 0.0-0.1	BH15 0.4-0.5	BH16 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23504	S19-Au23505	S19-Au23506	S19-Au23507
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	94	54	81
p-Terphenyl-d14 (surr.)	1	%	106	110	52	78
% Moisture						
	1	%	15	7.8	12	8.1
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.3	9.9	11	< 5
Copper	5	mg/kg	16	13	< 5	< 5
Lead	5	mg/kg	6.1	6.1	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.4	13	< 5	< 5
Zinc	5	mg/kg	33	38	< 5	9.0

Client Sample ID			BH17 0.0-0.1	TP12 0.0-0.1	TP12 0.9-1.0	TP11 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23508	S19-Au23509	S19-Au23510	S19-Au23512
Date Sampled			Aug 14, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	54	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	54	-	< 50	-

Client Sample ID			BH17 0.0-0.1 Soil S19-Au23508 Aug 14, 2019	TP12 0.0-0.1 Soil S19-Au23509 Aug 13, 2019	TP12 0.9-1.0 Soil S19-Au23510 Aug 13, 2019	TP11 0.4-0.5 Soil S19-Au23512 Aug 13, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			BH17 0.0-0.1 Soil S19-Au23508 Aug 14, 2019	TP12 0.0-0.1 Soil S19-Au23509 Aug 13, 2019	TP12 0.9-1.0 Soil S19-Au23510 Aug 13, 2019	TP11 0.4-0.5 Soil S19-Au23512 Aug 13, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	86	-	74	-
Toluene-d8 (surr.)	1	%	89	-	86	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	89	86	76
p-Terphenyl-d14 (surr.)	1	%	94	87	84	80
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05

Client Sample ID			BH17 0.0-0.1 Soil	TP12 0.0-0.1 Soil	TP12 0.9-1.0 Soil	TP11 0.4-0.5 Soil
Sample Matrix			S19-Au23508	S19-Au23509	S19-Au23510	S19-Au23512
Eurofins Sample No.			Aug 14, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	97	-	-	81
Tetrachloro-m-xylene (surr.)	1	%	77	-	-	72
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	97	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	77	-	-	-
% Moisture						
	1	%	10	16	23	15
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	5.1	6.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.7	< 5	12	6.8
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	6.7	< 5	14	5.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	32	< 5	< 5	14

Client Sample ID			TP11 1.4-1.5	TP11 1.9-2.0	TP09 0.0-0.1	TP09 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23513	S19-Au23514	S19-Au23515	S19-Au23516
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP11 1.4-1.5 Soil	TP11 1.9-2.0 Soil	TP09 0.0-0.1 Soil	TP09 0.4-0.5 Soil
Sample Matrix			S19-Au23513	S19-Au23514	S19-Au23515	S19-Au23516
Eurofins Sample No.			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	62
Toluene-d8 (surr.)	1	%	-	-	-	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	102	77	75	-
p-Terphenyl-d14 (surr.)	1	%	100	79	89	-

Client Sample ID			TP11 1.4-1.5 Soil	TP11 1.9-2.0 Soil	TP09 0.0-0.1 Soil	TP09 0.4-0.5 Soil
Sample Matrix			S19-Au23513	S19-Au23514	S19-Au23515	S19-Au23516
Eurofins Sample No.			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	95	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	77	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	95	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	77	-
% Moisture						
	1	%	11	16	14	11
Heavy Metals						
Arsenic	2	mg/kg	12	< 2	2.5	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	14	7.0	7.3	-
Copper	5	mg/kg	< 5	< 5	6.4	-
Lead	5	mg/kg	< 5	< 5	13	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	< 5	< 5	< 5	-
Zinc	5	mg/kg	< 5	< 5	36	-

Client Sample ID			M01 TP09 3.9-4.0	TP09 4.4-4.5	TP10 0.0-0.1	TP10 1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23517	S19-Au23518	S19-Au23519	S19-Au23520
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			M01 TP09 3.9-4.0	TP09 4.4-4.5	TP10 0.0-0.1	TP10 1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23517	S19-Au23518	S19-Au23519	S19-Au23520
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	80	-
Toluene-d8 (surr.)	1	%	-	-	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	85	78	90
p-Terphenyl-d14 (surr.)	1	%	-	92	89	94

Client Sample ID			^{M01} TP09 3.9-4.0	TP09 4.4-4.5	TP10 0.0-0.1	TP10 1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23517	S19-Au23518	S19-Au23519	S19-Au23520
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	91	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	76	-
% Moisture	1	%	20	19	13	18
Heavy Metals						
Arsenic	2	mg/kg	-	3.3	4.3	2.7
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	13	15	9.6
Copper	5	mg/kg	-	< 5	5.5	< 5
Lead	5	mg/kg	-	6.2	10	5.1
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	< 5	< 5
Zinc	5	mg/kg	-	< 5	31	17
Pathogens						
E.coli	1	MPN/g	< 10	-	-	-
Salmonella	1		^{M10} Not Detected	-	-	-
Salmonella Volume/Mass Tested		g	25	-	-	-
Thermotolerant Coliforms	1	MPN/g	^{M10} < 10	-	-	-

Client Sample ID			TP10 2.9-3.0 Soil S19-Au23521 Aug 13, 2019	TP144 0.0-0.1 Soil S19-Au23522 Aug 13, 2019	TP144 0.9-1.0 Soil S19-Au23523 Aug 13, 2019	TP144 1.9-2.0 Soil S19-Au23524 Aug 13, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	86	< 50	-
TRH C29-C36	50	mg/kg	-	400	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	486	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			TP10 2.9-3.0	TP144 0.0-0.1	TP144 0.9-1.0	TP144 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23521	S19-Au23522	S19-Au23523	S19-Au23524
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	88	87	-
Toluene-d8 (surr.)	1	%	-	93	99	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	150	< 100	-
TRH >C34-C40	100	mg/kg	-	380	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	530	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	78	82	81
p-Terphenyl-d14 (surr.)	1	%	-	94	85	82

Client Sample ID			TP10 2.9-3.0	TP144 0.0-0.1	TP144 0.9-1.0	TP144 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23521	S19-Au23522	S19-Au23523	S19-Au23524
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloride (surr.)	1	%	-	99	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	79	-	-
% Moisture	1	%	14	15	13	15
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.0	12	< 5	8.5
Copper	5	mg/kg	< 5	5.9	< 5	< 5
Lead	5	mg/kg	< 5	6.7	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	7.1	< 5	< 5
Zinc	5	mg/kg	< 5	33	< 5	< 5

Client Sample ID			TP144 2.9-3.0	TP146 0.0-0.1	TP146 0.3-0.4	TP146 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23525	S19-Au23526	S19-Au23527	S19-Au23528
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	150	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	150	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			TP144 2.9-3.0	TP146 0.0-0.1	TP146 0.3-0.4	TP146 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23525	S19-Au23526	S19-Au23527	S19-Au23528
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	105	103	-
Toluene-d8 (surr.)	1	%	-	111	107	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	130	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	130	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	70	72	55	83
p-Terphenyl-d14 (surr.)	1	%	76	80	58	80

Client Sample ID			TP144 2.9-3.0	TP146 0.0-0.1	TP146 0.3-0.4	TP146 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23525	S19-Au23526	S19-Au23527	S19-Au23528
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	81	50	-
Tetrachloro-m-xylene (surr.)	1	%	-	68	55	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	77	81	-	-
Tetrachloro-m-xylene (surr.)	1	%	71	68	-	-
% Moisture						
% Moisture	1	%	17	11	11	9.0
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.5	7.2	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	9.3	10	9.2
Copper	5	mg/kg	< 5	5.6	< 5	< 5
Lead	5	mg/kg	< 5	9.2	6.6	9.2
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	5.9	< 5	< 5
Zinc	5	mg/kg	5.7	29	5.7	11

Client Sample ID			TP146 1.9-2.0	TP145 0.0-0.1	TP145 0.4-0.5	TP145 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23529	S19-Au23530	S19-Au23531	S19-Au23532
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP146 1.9-2.0	TP145 0.0-0.1	TP145 0.4-0.5	TP145 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23529	S19-Au23530	S19-Au23531	S19-Au23532
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	113	-
Toluene-d8 (surr.)	1	%	-	-	110	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	94	92	-	-
p-Terphenyl-d14 (surr.)	1	%	125	131	-	-

Client Sample ID			TP146 1.9-2.0	TP145 0.0-0.1	TP145 0.4-0.5	TP145 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23529	S19-Au23530	S19-Au23531	S19-Au23532
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	149	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	89	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	71
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	71
% Moisture						
	1	%	14	9.4	16	9.8
Heavy Metals						
Arsenic	2	mg/kg	3.0	< 2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	12	7.7	-	< 5
Copper	5	mg/kg	5.7	7.0	-	< 5
Lead	5	mg/kg	7.2	6.8	-	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	5.0	5.6	-	< 5
Zinc	5	mg/kg	14	14	-	< 5

Client Sample ID			TP145 2.4-2.5	TP145 3.4-3.5	TP19 0.0-0.1	TP19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23533	S19-Au23534	S19-Au23535	S19-Au23536
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			TP145 2.4-2.5	TP145 3.4-3.5	TP19 0.0-0.1	TP19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23533	S19-Au23534	S19-Au23535	S19-Au23536
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	105	-	81	-
Toluene-d8 (surr.)	1	%	101	-	84	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	75	72	77	71
p-Terphenyl-d14 (surr.)	1	%	76	68	85	83

Client Sample ID			TP145 2.4-2.5	TP145 3.4-3.5	TP19 0.0-0.1	TP19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23533	S19-Au23534	S19-Au23535	S19-Au23536
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	77
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	73
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	77
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	73
% Moisture						
	1	%	11	11	17	11
Heavy Metals						
Arsenic	2	mg/kg	3.7	2.1	2.5	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.3	6.8	24	13
Copper	5	mg/kg	< 5	< 5	13	< 5
Lead	5	mg/kg	< 5	7.1	5.2	5.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.9	22	< 5
Zinc	5	mg/kg	< 5	20	40	12

Client Sample ID			TP19 1.4-1.5	TP19 2.4-2.5	QC04	BH70/MW08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23537	S19-Au23538	S19-Au23539	S19-Au23540
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			TP19 1.4-1.5	TP19 2.4-2.5	QC04	BH70/MW08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23537	S19-Au23538	S19-Au23539	S19-Au23540
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	63	-	-	95
Toluene-d8 (surr.)	1	%	70	-	-	99
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	91	76	85
p-Terphenyl-d14 (surr.)	1	%	90	106	80	81
% Moisture						
	1	%	14	18	11	19

Client Sample ID			TP19 1.4-1.5	TP19 2.4-2.5	QC04	BH70/MW08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23537	S19-Au23538	S19-Au23539	S19-Au23540
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.6	3.2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.2	8.8	11	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	6.4	12	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	14	21	< 5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	124
13C5-PFPeA (surr.)	1	%	-	-	-	130
13C5-PFHxA (surr.)	1	%	-	-	-	131
13C4-PFHpA (surr.)	1	%	-	-	-	132
13C8-PFOA (surr.)	1	%	-	-	-	115
13C5-PFNA (surr.)	1	%	-	-	-	137
13C6-PFDA (surr.)	1	%	-	-	-	96
13C2-PFUnDA (surr.)	1	%	-	-	-	139
13C2-PFDoDA (surr.)	1	%	-	-	-	164
13C2-PFTeDA (surr.)	1	%	-	-	-	166
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	131
D3-N-MeFOSA (surr.)	1	%	-	-	-	97
D5-N-EtFOSA (surr.)	1	%	-	-	-	96
D7-N-MeFOSE (surr.)	1	%	-	-	-	160
D9-N-EtFOSE (surr.)	1	%	-	-	-	112
D5-N-EtFOSAA (surr.)	1	%	-	-	-	246
D3-N-MeFOSAA (surr.)	1	%	-	-	-	283

Client Sample ID			TP19 1.4-1.5	TP19 2.4-2.5	QC04	BH70/MW08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23537	S19-Au23538	S19-Au23539	S19-Au23540
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	117
18O2-PFHxS (surr.)	1	%	-	-	-	133
13C8-PFOS (surr.)	1	%	-	-	-	125
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	-	-	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	-	176
13C2-6:2 FTSA (surr.)	1	%	-	-	-	288
13C2-8:2 FTSA (surr.)	1	%	-	-	-	150
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			QA03	BH38/MW05	BH38/MW05	BH39 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23541	S19-Au23542	S19-Au23543	S19-Au23544
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	63
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	63
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			QA03	BH38/MW05	BH38/MW05	BH39 0.0-0.1
Sample Matrix			Soil	0.0-0.1	0.2-0.3	Soil
Eurofins Sample No.			S19-Au23541	S19-Au23542	S19-Au23543	S19-Au23544
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1,2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1,2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1,2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1,2,3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1,2,4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1,3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1,3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1,3,5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			QA03	BH38/MW05	BH38/MW05	BH39 0.0-0.1
Sample Matrix			Soil	0.0-0.1	0.2-0.3	Soil
Eurofins Sample No.			S19-Au23541	S19-Au23542	S19-Au23543	S19-Au23544
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 13, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	88	-	-	91
Toluene-d8 (surr.)	1	%	99	-	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	-	76	88
p-Terphenyl-d14 (surr.)	1	%	88	-	67	81
% Moisture						
	1	%	14	8.4	7.6	5.9
Heavy Metals						
Arsenic	2	mg/kg	< 2	5.5	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	26	8.4	9.8
Copper	5	mg/kg	< 5	32	< 5	15
Lead	5	mg/kg	< 5	5.5	8.7	6.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	51	< 5	13
Zinc	5	mg/kg	< 5	48	14	39

Client Sample ID			BH39 0.4-0.5 Soil S19-Au23545 Aug 13, 2019	BH27 0.0-0.1 Soil S19-Au23546 Aug 13, 2019	BH147 0.0-0.1 Soil S19-Au23547 Aug 13, 2019	BH152 0.0-0.1 Soil S19-Au23548 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	53	-
TRH C10-C36 (Total)	50	mg/kg	-	-	53	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH39 0.4-0.5	BH27 0.0-0.1	BH147 0.0-0.1	BH152 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23545	S19-Au23546	S19-Au23547	S19-Au23548
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	129	-
Toluene-d8 (surr.)	1	%	-	-	116	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	79	72	85
p-Terphenyl-d14 (surr.)	1	%	73	67	85	82

Client Sample ID			BH39 0.4-0.5	BH27 0.0-0.1	BH147 0.0-0.1	BH152 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23545	S19-Au23546	S19-Au23547	S19-Au23548
Date Sampled			Aug 13, 2019	Aug 13, 2019	Aug 13, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4,4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	87	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	73	-
% Moisture	1	%	9.3	6.5	7.8	20
Heavy Metals						
Arsenic	2	mg/kg	3.7	< 2	< 2	3.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	7.6	< 5	11
Copper	5	mg/kg	< 5	9.7	< 5	9.7
Lead	5	mg/kg	5.6	< 5	22	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	8.3	< 5	9.2
Zinc	5	mg/kg	7.2	27	30	45

Client Sample ID			BH152 2.9-3.0	BH152 6.4-6.5	BH153 0.0-0.1	BH153 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23549	S19-Au23550	S19-Au23551	S19-Au23552
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	64	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	64	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH152 2.9-3.0	BH152 6.4-6.5	BH153 0.0-0.1	BH153 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23549	S19-Au23550	S19-Au23551	S19-Au23552
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	66	-	-	-
Toluene-d8 (surr.)	1	%	75	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	67	88	68	120
p-Terphenyl-d14 (surr.)	1	%	79	85	79	82

Client Sample ID			BH152 2.9-3.0	BH152 6.4-6.5	BH153 0.0-0.1	BH153 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23549	S19-Au23550	S19-Au23551	S19-Au23552
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	79	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	65	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	69	-	-	98
Tetrachloro-m-xylene (surr.)	1	%	71	-	-	97
Conductivity (1:5 aqueous extract at 25°C as rec.)						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	160	-	-	-
Organic Matter %						
Organic Matter %	0.01	% w/w	5.8	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.9	-	-	-
% Moisture						
% Moisture	1	%	22	18	15	9.6
Heavy Metals						
Arsenic	2	mg/kg	3.1	< 2	< 2	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.3	16	6.2	15
Copper	5	mg/kg	< 5	< 5	< 5	11
Iron	20	mg/kg	23000	-	-	-

Client Sample ID			BH152 2.9-3.0	BH152 6.4-6.5	BH153 0.0-0.1	BH153 1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23549	S19-Au23550	S19-Au23551	S19-Au23552
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	10	7.1	6.9	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	15
Zinc	5	mg/kg	10	< 5	9.2	24
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	13	-	-	-

Client Sample ID			BH153 3.9-4.0	QC05	QC10	QC11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23553	S19-Au23555	S19-Au23556	S19-Au23557
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			BH153 3.9-4.0	QC05	QC10	QC11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23553	S19-Au23555	S19-Au23556	S19-Au23557
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	87	83	-
Toluene-d8 (surr.)	1	%	-	89	89	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH153 3.9-4.0	QC05	QC10	QC11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23553	S19-Au23555	S19-Au23556	S19-Au23557
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	56	86	69
p-Terphenyl-d14 (surr.)	1	%	77	88	87	96
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	61	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	68	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			BH153 3.9-4.0	QC05	QC10	QC11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23553	S19-Au23555	S19-Au23556	S19-Au23557
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchloroendate (surr.)	1	%	-	61	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	68	-	-
% Moisture	1	%	12	6.8	12	11
Heavy Metals						
Arsenic	2	mg/kg	2.4	< 2	4.4	2.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.2	< 5	9.8	17
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	5.6	5.2	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	56	11	< 5	< 5

Client Sample ID			TP54 0.0-0.1	TP54 1.4-1.5	QC08	TP55 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23558	S19-Au23559	S19-Au23560	S19-Au23561
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	65	-	-	-
TRH C10-C36 (Total)	50	mg/kg	65	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-

Client Sample ID			TP54 0.0-0.1	TP54 1.4-1.5	QC08	TP55 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23558	S19-Au23559	S19-Au23560	S19-Au23561
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	77	-	-	-
Toluene-d8 (surr.)	1	%	82	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			TP54 0.0-0.1	TP54 1.4-1.5	QC08	TP55 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23558	S19-Au23559	S19-Au23560	S19-Au23561
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	97	76	88	63
p-Terphenyl-d14 (surr.)	1	%	112	93	91	75
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	80
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	69

Client Sample ID			TP54 0.0-0.1	TP54 1.4-1.5	QC08	TP55 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23558	S19-Au23559	S19-Au23560	S19-Au23561
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
% Moisture	1	%	14	21	20	6.9
Heavy Metals						
Arsenic	2	mg/kg	2.8	3.0	5.1	2.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.0	13	14	6.0
Copper	5	mg/kg	8.2	< 5	< 5	< 5
Lead	5	mg/kg	< 5	18	18	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.7	< 5	< 5	< 5
Zinc	5	mg/kg	20	5.8	5.5	17

Client Sample ID			TP55 0.9-1.0	^{M01} TP151 0.0-0.1	TP151 0.9-1.0	QC09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23562	S19-Au23563	S19-Au23564	S19-Au23566
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			TP55 0.9-1.0	^{M01} TP151 0.0-0.1	TP151 0.9-1.0	QC09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23562	S19-Au23563	S19-Au23564	S19-Au23566
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	109	82	-
Toluene-d8 (surr.)	1	%	-	119	85	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP55 0.9-1.0	^{M01} TP151 0.0-0.1	TP151 0.9-1.0	QC09
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23562	S19-Au23563	S19-Au23564	S19-Au23566
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	88	83	73
p-Terphenyl-d14 (surr.)	1	%	104	99	88	83
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	76	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	78	-	-

Client Sample ID			TP55 0.9-1.0 Soil	^{M01} TP151 0.0-0.1 Soil	TP151 0.9-1.0 Soil	QC09 Soil
Sample Matrix			S19-Au23562	S19-Au23563	S19-Au23564	S19-Au23566
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	76	-	79
Tetrachloro-m-xylene (surr.)	1	%	-	78	-	76
% Moisture						
	1	%	16	15	9.8	12
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.1	< 5	6.5	7.3
Copper	5	mg/kg	< 5	5.3	< 5	6.2
Lead	5	mg/kg	6.3	7.4	8.1	9.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	130	10	26
Pathogens						
E.coli	1	MPN/g	-	< 10	-	-
Salmonella	1		-	^{M10} Not Detected	-	-
Salmonella Volume/Mass Tested		g	-	25	-	-
Thermotolerant Coliforms	1	MPN/g	-	^{M10} < 10	-	-

Client Sample ID			QC12 Soil	TP18 0.0-0.1 Soil	TP18 1.4-1.5 Soil	TP21 0.0-0.1 Soil
Sample Matrix			S19-Au23567	S19-Au23568	S19-Au23569	S19-Au23570
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			QC12	TP18 0.0-0.1	TP18 1.4-1.5	TP21 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23567	S19-Au23568	S19-Au23569	S19-Au23570
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1,2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1,2,3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1,2,4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1,3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1,3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1,3,5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1,4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	85	76	-
Toluene-d8 (surr.)	1	%	-	94	73	-

Client Sample ID			QC12	TP18 0.0-0.1	TP18 1.4-1.5	TP21 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23567	S19-Au23568	S19-Au23569	S19-Au23570
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	81	70	70	-
p-Terphenyl-d14 (surr.)	1	%	84	83	75	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			QC12	TP18 0.0-0.1	TP18 1.4-1.5	TP21 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23567	S19-Au23568	S19-Au23569	S19-Au23570
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	80	-	77
Tetrachloro-m-xylene (surr.)	1	%	-	69	-	78
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	71	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	68	-
% Moisture						
	1	%	12	8.7	9.7	9.8
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.5	6.3	6.7
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	5.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	15	< 5	18

Client Sample ID			TP21 0.9-1.0	TP23 0.0-0.1	TP23 0.3-0.4	TP23 2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23571	S19-Au23572	S19-Au23573	S19-Au23574
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50

Client Sample ID			TP21 0.9-1.0 Soil	TP23 0.0-0.1 Soil	TP23 0.3-0.4 Soil	TP23 2.9-3.0 Soil
Sample Matrix			S19-Au23571	S19-Au23572	S19-Au23573	S19-Au23574
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP21 0.9-1.0 Soil	TP23 0.0-0.1 Soil	TP23 0.3-0.4 Soil	TP23 2.9-3.0 Soil
Sample Matrix			S19-Au23571	S19-Au23572	S19-Au23573	S19-Au23574
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	94
Toluene-d8 (surr.)	1	%	-	-	-	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	70	-	72	62
p-Terphenyl-d14 (surr.)	1	%	75	-	81	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			TP21 0.9-1.0 Soil	TP23 0.0-0.1 Soil	TP23 0.3-0.4 Soil	TP23 2.9-3.0 Soil
Sample Matrix			S19-Au23571	S19-Au23572	S19-Au23573	S19-Au23574
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	81	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	70	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	74	-	82	71
Tetrachloro-m-xylene (surr.)	1	%	70	-	71	66
% Moisture						
	1	%	14	4.0	13	13
Heavy Metals						
Arsenic	2	mg/kg	3.0	-	2.2	6.6
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	8.9	-	14	7.6
Copper	5	mg/kg	7.0	-	14	< 5
Lead	5	mg/kg	13	-	14	9.2
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	15	< 5
Zinc	5	mg/kg	20	-	29	11

Client Sample ID			TP24 0.0-0.05 Soil	TP24 1.4-1.5 Soil	TP24 3.4-3.5 Soil	TP28 0.4-0.5 Soil
Sample Matrix			S19-Au23575	S19-Au23576	S19-Au23577	S19-Au23579
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	64	79	93
p-Terphenyl-d14 (surr.)	1	%	96	80	90	111
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	83	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	70	-	-
% Moisture						
	1	%	15	20	16	8.9
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.0	3.6	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	10	17	< 5
Copper	5	mg/kg	< 5	9.5	10	< 5
Lead	5	mg/kg	< 5	27	13	8.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.8	16	< 5
Zinc	5	mg/kg	9.5	46	30	30

Client Sample ID			BH32 0.0-0.1	TP32 0.4-0.5	TP32 1.4-1.5	TP35 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23580	S19-Au23581	S19-Au23582	S19-Au23583
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	76	77	86
p-Terphenyl-d14 (surr.)	1	%	-	84	97	127
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	85	-	-	56
Tetrachloro-m-xylene (surr.)	1	%	68	-	-	104

Client Sample ID			BH32 0.0-0.1	TP32 0.4-0.5	TP32 1.4-1.5	TP35 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23580	S19-Au23581	S19-Au23582	S19-Au23583
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorodate (surr.)	1	%	85	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	68	-	-	-
% Moisture						
	1	%	14	9.7	9.5	11
Heavy Metals						
Arsenic	2	mg/kg	-	4.7	3.9	< 2
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	11	9.2	< 5
Copper	5	mg/kg	-	< 5	< 5	< 5
Lead	5	mg/kg	-	< 5	< 5	< 5
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	< 5	< 5
Zinc	5	mg/kg	-	8.0	< 5	6.4

Client Sample ID			TP35 1.9-2.0	TP35 4.2-4.3	TP36 0.0-0.15	TP36 1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23584	S19-Au23585	S19-Au23588	S19-Au23589
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			TP35 1.9-2.0	TP35 4.2-4.3	TP36 0.0-0.15	TP36 1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23584	S19-Au23585	S19-Au23588	S19-Au23589
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,3,5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	91	-	-	93
Toluene-d8 (surr.)	1	%	83	-	-	108
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50

Client Sample ID			TP35 1.9-2.0	TP35 4.2-4.3	TP36 0.0-0.15	TP36 1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23584	S19-Au23585	S19-Au23588	S19-Au23589
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	84	79	75
p-Terphenyl-d14 (surr.)	1	%	132	99	93	83
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	83
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	77
% Moisture						
	1	%	8.5	17	13	15
Heavy Metals						
Arsenic	2	mg/kg	2.7	4.1	5.9	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	16	12	9.0
Copper	5	mg/kg	< 5	< 5	< 5	6.6
Lead	5	mg/kg	6.9	6.1	8.8	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	15	39

Client Sample ID			TP40 0.0-0.1 Soil	TP40 0.9-1.0 Soil	TP41 0.0-0.1 Soil	TP41 0.3-0.4 Soil
Sample Matrix			S19-Au23591	S19-Au23592	S19-Au23593	S19-Au23594
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	140	-
TRH C10-C36 (Total)	50	mg/kg	-	-	140	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP40 0.0-0.1 Soil	TP40 0.9-1.0 Soil	TP41 0.0-0.1 Soil	TP41 0.3-0.4 Soil
Sample Matrix			S19-Au23591	S19-Au23592	S19-Au23593	S19-Au23594
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	84	-
Toluene-d8 (surr.)	1	%	-	-	86	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	140	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	140	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	143	90	-	72
p-Terphenyl-d14 (surr.)	1	%	133	101	-	73
% Moisture						
	1	%	8.0	11	9.3	9.8

Client Sample ID			TP40 0.0-0.1	TP40 0.9-1.0	TP41 0.0-0.1	TP41 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23591	S19-Au23592	S19-Au23593	S19-Au23594
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	-	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	< 5	-	9.2
Copper	5	mg/kg	< 5	< 5	-	< 5
Lead	5	mg/kg	6.9	< 5	-	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	< 5	-	< 5
Zinc	5	mg/kg	30	< 5	-	< 5

Client Sample ID			TP42 0.0-0.1	QC06	BH103 0.0-0.1	BH37 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23595	S19-Au23596	S19-Au23606	S19-Au23607
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	58	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	58	< 50	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			TP42 0.0-0.1	QC06	BH103 0.0-0.1	BH37 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23595	S19-Au23596	S19-Au23606	S19-Au23607
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	95	92	-	-
Toluene-d8 (surr.)	1	%	90	101	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			TP42 0.0-0.1	QC06	BH103 0.0-0.1	BH37 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au23595	S19-Au23596	S19-Au23606	S19-Au23607
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	73	69	-	-
p-Terphenyl-d14 (surr.)	1	%	75	75	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	70	70	-	-
Tetrachloro-m-xylene (surr.)	1	%	72	71	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-

Client Sample ID			TP42 0.0-0.1 Soil	QC06 Soil	BH103 0.0-0.1 Soil	BH37 0.0-0.1 Soil
Sample Matrix			S19-Au23595	S19-Au23596	S19-Au23606	S19-Au23607
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	70	70	-	-
Tetrachloro-m-xylene (surr.)	1	%	72	71	-	-
% Moisture	1	%	11	11	5.3	14
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	7.1	6.3	-	-
Copper	5	mg/kg	5.5	< 5	-	-
Lead	5	mg/kg	8.0	7.2	-	-
Mercury	0.1	mg/kg	0.2	0.2	-	-
Nickel	5	mg/kg	< 5	< 5	-	-
Zinc	5	mg/kg	41	31	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	-	< 5	< 5
13C4-PFBA (surr.)	1	%	-	-	97	91
13C5-PFPeA (surr.)	1	%	-	-	84	79
13C5-PFHxA (surr.)	1	%	-	-	94	88
13C4-PFHpA (surr.)	1	%	-	-	129	109
13C8-PFOA (surr.)	1	%	-	-	126	105
13C5-PFNA (surr.)	1	%	-	-	106	112
13C6-PFDA (surr.)	1	%	-	-	108	107
13C2-PFUnDA (surr.)	1	%	-	-	120	132
13C2-PFDoDA (surr.)	1	%	-	-	100	95
13C2-PFTeDA (surr.)	1	%	-	-	116	110
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	-	< 10	< 10
13C8-FOSA (surr.)	1	%	-	-	143	142

Client Sample ID			TP42 0.0-0.1 Soil	QC06 Soil	BH103 0.0-0.1 Soil	BH37 0.0-0.1 Soil
Sample Matrix			S19-Au23595	S19-Au23596	S19-Au23606	S19-Au23607
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	-	-	112	110
D5-N-EtFOSA (surr.)	1	%	-	-	98	104
D7-N-MeFOSE (surr.)	1	%	-	-	62	61
D9-N-EtFOSE (surr.)	1	%	-	-	93	120
D5-N-EtFOSAA (surr.)	1	%	-	-	71	85
D3-N-MeFOSAA (surr.)	1	%	-	-	84	100
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	-	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	-	< 5	< 5
13C3-PFBS (surr.)	1	%	-	-	116	124
18O2-PFHxS (surr.)	1	%	-	-	120	109
13C8-PFOS (surr.)	1	%	-	-	140	130
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	-	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	-	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	-	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	-	-	89	71
13C2-6:2 FTSA (surr.)	1	%	-	-	74	68
13C2-8:2 FTSA (surr.)	1	%	-	-	79	69
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	< 50	< 50

Client Sample ID			BH13 0.0-0.1 Soil	BH59 0.0-0.1 Soil	QC07 Soil
Sample Matrix			S19-Au23608	S19-Au23609	S19-Au25918
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled					
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5

Client Sample ID			BH13 0.0-0.1	BH59 0.0-0.1	QC07
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au23608	S19-Au23609	S19-Au25918
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	99
p-Terphenyl-d14 (surr.)	1	%	-	-	71
% Moisture	1	%	12	8.4	8.1
Heavy Metals					
Arsenic	2	mg/kg	-	-	< 2
Cadmium	0.4	mg/kg	-	-	< 0.4
Chromium	5	mg/kg	-	-	6.8
Copper	5	mg/kg	-	-	< 5
Lead	5	mg/kg	-	-	5.2
Mercury	0.1	mg/kg	-	-	< 0.1
Nickel	5	mg/kg	-	-	< 5
Zinc	5	mg/kg	-	-	14
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	5	ug/kg	< 5	< 5	-
13C4-PFBA (surr.)	1	%	89	95	-
13C5-PFPeA (surr.)	1	%	100	111	-
13C5-PFHxA (surr.)	1	%	91	93	-
13C4-PFHpA (surr.)	1	%	105	108	-
13C8-PFOA (surr.)	1	%	125	120	-
13C5-PFNA (surr.)	1	%	113	129	-
13C6-PFDA (surr.)	1	%	104	105	-
13C2-PFUnDA (surr.)	1	%	103	122	-
13C2-PFDoDA (surr.)	1	%	96	98	-
13C2-PFTTeDA (surr.)	1	%	111	115	-

Client Sample ID			BH13 0.0-0.1 Soil	BH59 0.0-0.1 Soil	QC07 Soil
Sample Matrix			S19-Au23608	S19-Au23609	S19-Au25918
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Date Sampled					
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	-
13C8-FOSA (surr.)	1	%	138	141	-
D3-N-MeFOSA (surr.)	1	%	113	108	-
D5-N-EtFOSA (surr.)	1	%	107	105	-
D7-N-MeFOSE (surr.)	1	%	55	84	-
D9-N-EtFOSE (surr.)	1	%	77	78	-
D5-N-EtFOSAA (surr.)	1	%	95	92	-
D3-N-MeFOSAA (surr.)	1	%	114	113	-
Perfluoroalkyl sulfonic acids (PFASs)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	-
13C3-PFBS (surr.)	1	%	106	124	-
18O2-PFHxS (surr.)	1	%	100	119	-
13C8-PFOS (surr.)	1	%	132	141	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	86	88	-
13C2-6:2 FTSA (surr.)	1	%	129	73	-
13C2-8:2 FTSA (surr.)	1	%	83	67	-
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 23, 2019	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 23, 2019	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 23, 2019	14 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Aug 23, 2019	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 23, 2019	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Aug 23, 2019	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Aug 23, 2019	28 Days
Organic Matter % - Method: APHA 2540E Fixed and Volatile Solids Ignited at 550C	Melbourne	Aug 26, 2019	5 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	Aug 23, 2019	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 23, 2019	180 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 23, 2019	180 Days
E.coli - Method: LTM-MIC-6621 E.Coli and Total Coliforms by the MPN	Melbourne	Aug 20, 2019	72 Hour
Salmonella - Method:	Melbourne	Aug 19, 2019	0 Days
Thermotolerant Coliforms - Method: Inhouse: Thermotolerant Coliforms in Soil by MPN*	Melbourne	Aug 20, 2019	72 Hour
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Melbourne	Aug 23, 2019	7 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Aug 23, 2019	180 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Aug 21, 2019	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 23, 2019	180 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 23, 2019	180 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 23, 2019	180 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 23, 2019	180 Days

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X					X	
Perth Laboratory - NATA Site # 23736																																	
External Laboratory																																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																												
1	BH22 0.0-0.1	Aug 14, 2019		Soil	S19-Au23479		X											X	X			X			X								
2	BH22 0.9-1.0	Aug 14, 2019		Soil	S19-Au23480													X				X		X				X					
3	BH25/MW04 0.0-0.1	Aug 14, 2019		Soil	S19-Au23481		X											X				X		X				X					
4	BH25/MW04 0.2-0.3	Aug 14, 2019		Soil	S19-Au23482																				X							X	
5	BH25/MW04 0.9-1.0	Aug 14, 2019		Soil	S19-Au23483													X				X		X				X					
6	BH25/MW04 5.5-5.6	Aug 14, 2019		Soil	S19-Au23484							X			X	X		X				X		X			X						
7	BH26 0.0-0.1	Aug 14, 2019		Soil	S19-Au23485													X	X			X		X									

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217				X	X																										
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X			
Perth Laboratory - NATA Site # 23736																															
8	BH29 0.0-0.1	Aug 14, 2019														X	X	X		X											
9	BH29 0.4-0.5	Aug 14, 2019														X				X											
10	QC01_PFAS	Aug 14, 2019																					X					X			
11	BH30 0.0-0.1	Aug 14, 2019														X	X	X		X											
12	BH30 0.4-0.5	Aug 14, 2019														X				X	X					X					
13	BH31 0.0-0.1	Aug 14, 2019														X				X	X					X					
14	BH31 1.4-1.5	Aug 14, 2019														X				X											
15	BH34 0.0-0.1	Aug 14, 2019														X	X			X											
16	BH34 0.9-1.0	Aug 14, 2019														X				X											
17	BH148 0.0-0.1	Aug 14, 2019														X				X											
18	BH148 0.4-0.5	Aug 14, 2019														X				X											
19	BH149 0.0-0.1	Aug 14, 2019														X				X											

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NSW 2000
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Fax:

Received: Aug 16, 2019 9:00 AM
Due: Aug 23, 2019
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271					X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217						X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X			X		
Perth Laboratory - NATA Site # 23736																																
20	BH150 0.0-0.1	Aug 14, 2019		Soil	S19-Au23498	X												X			X			X								
21	BH004/MW03 0.0-0.1	Aug 14, 2019		Soil	S19-Au23499													X	X			X	X				X					
22	BH004/MW03 0.2-0.3	Aug 14, 2019		Soil	S19-Au23500	X												X	X	X		X	X				X					
23	BH004/MW03 0.4-0.5	Aug 14, 2019		Soil	S19-Au23501													X	X			X		X								
24	BH005 0.0-0.1	Aug 14, 2019		Soil	S19-Au23502	X												X				X		X								
25	BH014 0.0-0.1	Aug 14, 2019		Soil	S19-Au23503						X																					
26	BH014 0.2-0.3	Aug 14, 2019		Soil	S19-Au23504													X				X	X				X					
27	BH15 0.0-0.1	Aug 14, 2019		Soil	S19-Au23505	X												X				X		X								
28	BH15 0.4-0.5	Aug 14, 2019		Soil	S19-Au23506													X				X		X								
29	BH16 0.0-0.1	Aug 14, 2019		Soil	S19-Au23507													X				X		X								

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271					X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X					X
Perth Laboratory - NATA Site # 23736																															
30	BH17 0.0-0.1	Aug 14, 2019		Soil	S19-Au23508	X												X	X	X		X	X					X			
31	TP12 0.0-0.1	Aug 13, 2019		Soil	S19-Au23509													X				X	X								
32	TP12 0.9-1.0	Aug 13, 2019		Soil	S19-Au23510													X				X	X					X			
33	TP11 0.0-0.1	Aug 13, 2019		Soil	S19-Au23511	X																									
34	TP11 0.4-0.5	Aug 13, 2019		Soil	S19-Au23512													X	X			X	X								
35	TP11 1.4-1.5	Aug 13, 2019		Soil	S19-Au23513													X				X	X								
36	TP11 1.9-2.0	Aug 13, 2019		Soil	S19-Au23514													X				X	X								
37	TP09 0.0-0.1	Aug 13, 2019		Soil	S19-Au23515	X												X	X	X		X	X								
38	TP09 0.4-0.5	Aug 13, 2019		Soil	S19-Au23516																		X	X			X				
39	TP09 3.9-4.0	Aug 13, 2019		Soil	S19-Au23517					X							X							X					X		
40	TP09 4.4-4.5	Aug 13, 2019		Soil	S19-Au23518													X				X	X								
41	TP10 0.0-0.1	Aug 13, 2019		Soil	S19-Au23519		X											X	X			X	X				X				

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
42	TP10 1.4-1.5	Aug 13, 2019		Soil	S19-Au23520														X			X		X									
43	TP10 2.9-3.0	Aug 13, 2019		Soil	S19-Au23521																	X		X									
44	TP144 0.0-0.1	Aug 13, 2019		Soil	S19-Au23522		X												X	X		X	X	X				X					
45	TP144 0.9-1.0	Aug 13, 2019		Soil	S19-Au23523														X			X	X	X				X					
46	TP144 1.9-2.0	Aug 13, 2019		Soil	S19-Au23524														X			X		X									
47	TP144 2.9-3.0	Aug 13, 2019		Soil	S19-Au23525		X												X	X		X		X									
48	TP146 0.0-0.1	Aug 13, 2019		Soil	S19-Au23526														X	X	X	X		X	X			X					
49	TP146 0.3-0.4	Aug 13, 2019		Soil	S19-Au23527														X	X		X		X	X			X					
50	TP146 0.9-1.0	Aug 13, 2019		Soil	S19-Au23528														X			X		X									
51	TP146 1.9-2.0	Aug 13, 2019		Soil	S19-Au23529														X			X		X									
52	TP145 0.0-0.1	Aug 13, 2019		Soil	S19-Au23530														X	X		X		X									
53	TP145 0.4-0.5	Aug 13, 2019		Soil	S19-Au23531		X																	X	X			X					

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Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
54	TP145 0.9-1.0	Aug 13, 2019		Soil	S19-Au23532																X	X		X									
55	TP145 2.4-2.5	Aug 13, 2019		Soil	S19-Au23533														X			X	X					X					
56	TP145 3.4-3.5	Aug 13, 2019		Soil	S19-Au23534														X			X	X										
57	TP19 0.0-0.1	Aug 13, 2019		Soil	S19-Au23535		X												X			X	X					X					
58	TP19 0.4-0.5	Aug 13, 2019		Soil	S19-Au23536														X	X	X	X	X										
59	TP19 1.4-1.5	Aug 13, 2019		Soil	S19-Au23537														X			X	X					X					
60	TP19 2.4-2.5	Aug 13, 2019		Soil	S19-Au23538														X			X	X										
61	QC04	Aug 13, 2019		Soil	S19-Au23539														X			X	X										
62	BH70/MW08 0.0-0.1	Aug 13, 2019		Soil	S19-Au23540														X			X	X					X		X			
63	QA03	Aug 13, 2019		Soil	S19-Au23541		X												X			X	X					X					
64	BH38/MW05 0.0-0.1	Aug 13, 2019		Soil	S19-Au23542		X												X			X	X										

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X				X	
Perth Laboratory - NATA Site # 23736																														
65	BH38/MW05 0.2-0.3	Aug 13, 2019														X				X										
66	BH39 0.0-0.1	Aug 13, 2019														X				X		X	X			X				
67	BH39 0.4-0.5	Aug 13, 2019														X				X		X	X							
68	BH27 0.0-0.1	Aug 13, 2019														X				X		X	X			X				
69	BH147 0.0-0.1	Aug 13, 2019														X	X			X		X	X			X				
70	BH152 0.0-0.1	Aug 14, 2019														X				X		X	X							
71	BH152 2.9-3.0	Aug 14, 2019														X		X		X		X	X			X				
72	BH152 6.4-6.5	Aug 14, 2019														X				X		X	X							
73	BH153 0.0-0.1	Aug 14, 2019														X	X			X		X	X							
74	BH153 1.9-2.0	Aug 14, 2019														X		X		X		X	X							
75	BH153 3.9-4.0	Aug 14, 2019														X				X		X	X							

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermolabile Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X						
Perth Laboratory - NATA Site # 23736																																
76	BH153 FRAG-01	Aug 14, 2019	Building Materials			X																										
77	QC05	Aug 14, 2019	Soil		X												X	X	X		X		X	X			X					
78	QC10	Aug 14, 2019	Soil														X				X		X	X			X					
79	QC11	Aug 14, 2019	Soil														X				X		X	X								
80	TP54 0.0-0.1	Aug 14, 2019	Soil		X												X				X		X	X			X					
81	TP54 1.4-1.5	Aug 14, 2019	Soil														X				X		X	X								
82	QC08	Aug 14, 2019	Soil														X				X		X	X								
83	TP55 0.0-0.1	Aug 14, 2019	Soil														X	X			X		X	X								
84	TP55 0.9-1.0	Aug 14, 2019	Soil														X				X		X	X								
85	TP151 0.0-0.1	Aug 14, 2019	Soil					X								X	X	X	X		X		X	X			X	X				
86	TP151 0.9-1.0	Aug 14, 2019	Soil													X	X	X	X		X		X	X			X	X				

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X						
Perth Laboratory - NATA Site # 23736																																	
87	TP154 0.0-0.1	Aug 14, 2019		Soil	S19-Au23565	X																											
88	QC09	Aug 14, 2019		Soil	S19-Au23566													X		X		X											
89	QC12	Aug 14, 2019		Soil	S19-Au23567													X				X											
90	TP18 0.0-0.1	Aug 14, 2019		Soil	S19-Au23568	X												X	X			X		X	X			X					
91	TP18 1.4-1.5	Aug 14, 2019		Soil	S19-Au23569													X		X		X		X	X			X					
92	TP21 0.0-0.1	Aug 14, 2019		Soil	S19-Au23570	X													X			X			X								
93	TP21 0.9-1.0	Aug 14, 2019		Soil	S19-Au23571														X		X		X			X							
94	TP23 0.0-0.1	Aug 14, 2019		Soil	S19-Au23572	X													X						X								
95	TP23 0.3-0.4	Aug 14, 2019		Soil	S19-Au23573														X		X		X			X							
96	TP23 2.9-3.0	Aug 14, 2019		Soil	S19-Au23574	X													X		X		X		X			X					
97	TP24 0.0-0.05	Aug 14, 2019		Soil	S19-Au23575	X													X				X		X								
98	TP24 1.4-1.5	Aug 14, 2019		Soil	S19-Au23576	X													X		X		X		X								

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
99	TP24 3.4-3.5	Aug 14, 2019														X				X			X						
100	TP28 0.0-0.1	Aug 14, 2019		X																									
101	TP28 0.4-0.5	Aug 14, 2019														X				X			X						
102	BH32 0.0-0.1	Aug 14, 2019		X													X	X					X						
103	TP32 0.4-0.5	Aug 14, 2019														X				X			X						
104	TP32 1.4-1.5	Aug 14, 2019														X				X			X						
105	TP35 0.0-0.1	Aug 14, 2019		X												X	X			X			X						
106	TP35 1.9-2.0	Aug 14, 2019														X				X		X	X			X			
107	TP35 4.2-4.3	Aug 14, 2019														X				X			X						
108	TP35 FRAG01	Aug 14, 2019																						X					
109	TP35 FRAG02	Aug 14, 2019																						X					

Company Name: JBS & G Australia (NSW) P/L
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Sydney
NSW 2000
Project Name: CENTRAL COAST DSI
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Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																									X	X	X				X	
Perth Laboratory - NATA Site # 23736																																
110	TP36 0.0-0.15	Aug 14, 2019		Soil	S19-Au23588	X												X				X		X								
111	TP36 1.4-1.5	Aug 14, 2019		Soil	S19-Au23589													X		X		X		X				X				
112	TP36 FRAG01	Aug 14, 2019		Building Materials	S19-Au23590			X																								
113	TP40 0.0-0.1	Aug 14, 2019		Soil	S19-Au23591	X												X				X		X								
114	TP40 0.9-1.0	Aug 14, 2019		Soil	S19-Au23592													X				X		X								
115	TP41 0.0-0.1	Aug 14, 2019		Soil	S19-Au23593	X																		X	X			X				
116	TP41 0.3-0.4	Aug 14, 2019		Soil	S19-Au23594													X				X		X								
117	TP42 0.0-0.1	Aug 14, 2019		Soil	S19-Au23595	X												X	X	X		X		X	X			X				
118	QC06	Aug 14, 2019		Soil	S19-Au23596	X												X	X	X		X		X	X			X				
119	SW01	Aug 14, 2019		Water	S19-Au23597	X			X				X	X		X						X	X	X				X		X	X	
120	SW02	Aug 14, 2019		Water	S19-Au23598	X			X				X	X		X						X	X	X				X		X	X	

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X					X	
Perth Laboratory - NATA Site # 23736																																
121	SW03	Aug 14, 2019					X				X	X		X						X	X						X			X	X	
122	SW04	Aug 14, 2019					X				X	X		X						X	X						X			X	X	
123	QC01_SW	Aug 14, 2019					X				X	X		X						X	X						X			X	X	
124	RIN03	Aug 14, 2019																			X						X				X	
125	RIN04	Aug 14, 2019																			X						X				X	
126	TS	Aug 14, 2019																				X										
127	TB	Aug 14, 2019																				X										
128	BH103 0.0-0.1	Aug 14, 2019																						X							X	
129	BH37 0.0-0.1	Aug 14, 2019																						X							X	
130	BH13 0.0-0.1	Aug 14, 2019																						X							X	
131	BH59 0.0-0.1	Aug 14, 2019																						X							X	
132	BH17 0.9-1.0	Aug 14, 2019								X																						

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Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)						
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Sydney Laboratory - NATA Site # 18217					X	X																														
Brisbane Laboratory - NATA Site # 20794																								X	X	X				X						
Perth Laboratory - NATA Site # 23736																																				
133	BH22 0.4-0.5	Aug 14, 2019																																		
134	BH22 1.4-1.5	Aug 14, 2019																																		
135	BH22 2.4-2.5	Aug 14, 2019																																		
136	BH22 3.4-3.5	Aug 14, 2019																																		
137	BH25/MW04 0.4-0.5	Aug 14, 2019																																		
138	BH26 0.2-0.3	Aug 14, 2019																																		
139	BH26 0.4-0.5	Aug 14, 2019																																		
140	BH29 0.9-1.0	Aug 14, 2019																																		
141	BH30 0.9-1.0	Aug 14, 2019																																		
142	BH30 1.4-1.5	Aug 14, 2019																																		
143	BH31 0.4-0.5	Aug 14, 2019																																		

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
144	BH34 0.4-0.5	Aug 14, 2019																												
145	BH34 1.4-1.5	Aug 14, 2019																												
146	BH34 2.4-2.5	Aug 14, 2019																												
147	BH34 3.4-3.5	Aug 14, 2019																												
148	BH148 0.2-0.3	Aug 14, 2019																												
149	BH149 0.2-0.3	Aug 14, 2019																												
150	BH04/MW03 0.9-1.0	Aug 14, 2019																												
151	BH05 0.2-0.3	Aug 14, 2019																												
152	BH05 0.4-0.5	Aug 14, 2019																												
153	BH014 0.4-0.5	Aug 14, 2019																												
154	BH014 0.9-1.0	Aug 14, 2019																												

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
155	BH15 0.2-0.3	Aug 14, 2019							X																				
156	BH16 0.2-0.3	Aug 14, 2019						X																					
157	BH16 0.4-0.5	Aug 14, 2019						X																					
158	BH17 0.4-0.5	Aug 14, 2019						X																					
159	TP12 0.4-0.5	Aug 13, 2019						X																					
160	TP11 0.9-1.0	Aug 13, 2019						X																					
161	TP09 0.9-1.0	Aug 13, 2019						X																					
162	TP09 1.9-2.0	Aug 13, 2019						X																					
163	TP09 2.9-3.0	Aug 13, 2019						X																					
164	TP10 0.4-0.5	Aug 13, 2019						X																					
165	TP10 0.9-1.0	Aug 13, 2019						X																					
166	TP10 2.4-2.5	Aug 13, 2019						X																					

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
167	TP144 0.4-0.5	Aug 13, 2019						X																					
168	TP144 1.4-1.5	Aug 13, 2019						X																					
169	TP144 2.4-2.5	Aug 13, 2019						X																					
170	TP144 3.4-3.5	Aug 13, 2019						X																					
171	TP144 3.9-4.0	Aug 13, 2019						X																					
172	TP144 4.2-4.3	Aug 13, 2019						X																					
173	TP146 1.4-1.5	Aug 13, 2019						X																					
174	TP146 2.4-2.5	Aug 13, 2019						X																					
175	TP146 2.9-3.0	Aug 13, 2019						X																					
176	TP146 3.4-3.5	Aug 13, 2019						X																					
177	TP146 3.9-4.0	Aug 13, 2019						X																					
178	TP145 1.4-1.5	Aug 13, 2019						X																					

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
179	TP145 1.9-2.0	Aug 13, 2019						X																					
180	TP145 2.9-3.0	Aug 13, 2019						X																					
181	TP145 3.9-4.0	Aug 13, 2019						X																					
182	TP19 0.2-0.3	Aug 13, 2019						X																					
183	TP19 0.9-1.0	Aug 13, 2019						X																					
184	TP19 1.9-2.0	Aug 13, 2019						X																					
185	TP19 2.9-3.0	Aug 13, 2019						X																					
186	BH70/MW08 0.2-0.3	Aug 13, 2019						X																					
187	BH70/MW08 0.4-0.5	Aug 13, 2019						X																					
188	BH38/MW05 0.4-0.5	Aug 13, 2019						X																					

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217				X	X																										
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X			
Perth Laboratory - NATA Site # 23736																															
189	BH38/MW05 0.9-1.0	Aug 13, 2019																													
190	BH39 0.2-0.3	Aug 13, 2019							X																						
191	BH39 0.9-1.0	Aug 13, 2019							X																						
192	BH27 0.2-0.3	Aug 13, 2019							X																						
193	BH27 0.4-0.5	Aug 13, 2019							X																						
194	BH27 0.9-1.0	Aug 13, 2019							X																						
195	BH147 0.3-0.4	Aug 13, 2019							X																						
196	BH147 0.9-1.0	Aug 13, 2019							X																						
197	BH150 0.2-0.3	Aug 14, 2019							X																						
198	BH150 0.4-0.5	Aug 14, 2019							X																						
199	BH150 0.9-1.0	Aug 14, 2019							X																						

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	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
200	BH152 0.9-1.0	Aug 14, 2019																												
201	BH152 4.9-5.0	Aug 14, 2019																												
202	BH153 0.4-0.5	Aug 14, 2019																												
203	BH153 0.9-1.0	Aug 14, 2019																												
204	BH153 2.9-3.0	Aug 14, 2019																												
205	BH153 5.3-5.4	Aug 14, 2019																												
206	TP42 0.7-0.8	Aug 14, 2019																												
207	TP54 0.4-0.5	Aug 14, 2019																												
208	TP54 0.9-1.0	Aug 14, 2019																												
209	TP55 0.4-0.5	Aug 14, 2019																												
210	TP151 0.4-0.5	Aug 14, 2019																												
211	TP151 0.9-1.0	Aug 14, 2019																												

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
212	TP151 1.3-1.4	Aug 14, 2019																												
213	TP154 0.4-0.5	Aug 14, 2019																												
214	TP154 0.9-1.4	Aug 14, 2019																												
215	TP154 2.1-2.2	Aug 14, 2019																												
216	TP18 0.4-0.5	Aug 14, 2019																												
217	TP18 0.9-1.0	Aug 14, 2019																												
218	TP18 2.1-2.2	Aug 14, 2019																												
219	TP21 0.4-0.5	Aug 14, 2019																												
220	TP21 1.9-2.0	Aug 14, 2019																												
221	TP21 2.3-2.4	Aug 14, 2019																												
222	TP23 0.9-1.0	Aug 14, 2019																												
223	TP23 1.9-2.0	Aug 14, 2019																												

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X					X	
Perth Laboratory - NATA Site # 23736																																
224	TP23 3.9-4.0	Aug 14, 2019		Soil	S19-Au23703						X																					
225	TP24 0.05-0.15	Aug 14, 2019		Soil	S19-Au23704						X																					
226	TP24 0.4-0.5	Aug 14, 2019		Soil	S19-Au23705						X																					
227	TP24 2.4-2.5	Aug 14, 2019		Soil	S19-Au23706						X																					
228	TP24 4.1-4.2	Aug 14, 2019		Soil	S19-Au23707						X																					
229	TP28 0.9-1.0	Aug 14, 2019		Soil	S19-Au23708						X																					
230	TP28 1.9-2.0	Aug 14, 2019		Soil	S19-Au23709						X																					
231	BH32 0.9-1.0	Aug 14, 2019		Soil	S19-Au23710						X																					
232	BH32 1.9-2.0	Aug 14, 2019		Soil	S19-Au23711						X																					
233	TP35 0.4-0.5	Aug 14, 2019		Soil	S19-Au23712						X																					
234	TP35 0.9-1.0	Aug 14, 2019		Soil	S19-Au23713						X																					

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
235	TP35 2.9-3.0	Aug 14, 2019							X																				
236	TP35 3.9-4.0	Aug 14, 2019						X																					
237	TP36 0.4-0.5	Aug 14, 2019						X																					
238	TP36 2.4-2.5	Aug 14, 2019						X																					
239	TP36 3.4-3.5	Aug 14, 2019						X																					
240	TP40 0.4-0.5	Aug 14, 2019						X																					
241	TP40 1.7-1.8	Aug 14, 2019						X																					
242	TP41 1.0-1.1	Aug 14, 2019						X																					
243	TP42 0.4-0.5	Aug 14, 2019						X																					
244	BH030_1.4-1.5	Aug 14, 2019						X																					
245	TP154 1.4-1.5	Aug 14, 2019						X																					
246	BLANK01-SW	Aug 14, 2019																											X

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - W/A guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X						
Perth Laboratory - NATA Site # 23736																																
247	QC07	Aug 14, 2019	Soil														X				X											
Test Counts				5	38	4	5	2	115	1	5	5	1	1	5	2	99	29	23	5	110	2	45	115	115	1	45	2	13	7		

Internal Quality Control Review and Glossary
General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	%	118		70-130	Pass	
TRH C10-C14	%	89		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	95		70-130	Pass	
1.1.1-Trichloroethane	%	87		70-130	Pass	
1.2-Dichlorobenzene	%	114		70-130	Pass	
1.2-Dichloroethane	%	118		70-130	Pass	
Benzene	%	92		70-130	Pass	
Ethylbenzene	%	103		70-130	Pass	
m&p-Xylenes	%	107		70-130	Pass	
Toluene	%	125		70-130	Pass	
Trichloroethene	%	81		70-130	Pass	
Xylenes - Total	%	109		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	113		70-130	Pass	
TRH C6-C10	%	116		70-130	Pass	
TRH >C10-C16	%	84		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	101		70-130	Pass	
Acenaphthylene	%	99		70-130	Pass	
Anthracene	%	97		70-130	Pass	
Benz(a)anthracene	%	101		70-130	Pass	
Benzo(a)pyrene	%	93		70-130	Pass	
Benzo(b&j)fluoranthene	%	97		70-130	Pass	
Benzo(g,h,i)perylene	%	98		70-130	Pass	
Benzo(k)fluoranthene	%	97		70-130	Pass	
Chrysene	%	108		70-130	Pass	
Dibenz(a,h)anthracene	%	88		70-130	Pass	
Fluoranthene	%	108		70-130	Pass	
Fluorene	%	98		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	105		70-130	Pass	
Naphthalene	%	95		70-130	Pass	
Phenanthrene	%	95		70-130	Pass	
Pyrene	%	111		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	88		70-130	Pass	
4,4'-DDD	%	124		70-130	Pass	
4,4'-DDE	%	95		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
a-BHC	%	87			70-130	Pass	
Aldrin	%	88			70-130	Pass	
b-BHC	%	75			70-130	Pass	
d-BHC	%	90			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	93			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	100			70-130	Pass	
Endrin	%	86			70-130	Pass	
Endrin ketone	%	99			70-130	Pass	
g-BHC (Lindane)	%	82			70-130	Pass	
Heptachlor	%	72			70-130	Pass	
Heptachlor epoxide	%	83			70-130	Pass	
Hexachlorobenzene	%	99			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	123			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	93			80-120	Pass	
Chromium	%	106			80-120	Pass	
Copper	%	107			80-120	Pass	
Iron	%	118			80-120	Pass	
Lead	%	112			80-120	Pass	
Mercury	%	105			75-125	Pass	
Nickel	%	106			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	82			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	101			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	98			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	106			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	100			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	110			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	121			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	109			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	104			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	112			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	116			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	104			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	116			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Perfluoropropanesulfonic acid (PFPrS)	%	101			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	83			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	84			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	103			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	97			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	107			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	95			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	87			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	123			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	134			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au23484	CP	%	80		75-125	Pass	
Cadmium	S19-Au23484	CP	%	85		75-125	Pass	
Chromium	S19-Au23484	CP	%	83		75-125	Pass	
Copper	S19-Au23484	CP	%	86		75-125	Pass	
Lead	S19-Au23484	CP	%	85		75-125	Pass	
Mercury	S19-Au23484	CP	%	95		70-130	Pass	
Nickel	S19-Au23484	CP	%	83		75-125	Pass	
Zinc	S19-Au23484	CP	%	79		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23489	CP	%	76		70-130	Pass	
Acenaphthylene	S19-Au23489	CP	%	76		70-130	Pass	
Anthracene	S19-Au23489	CP	%	72		70-130	Pass	
Benz(a)anthracene	S19-Au23489	CP	%	90		70-130	Pass	
Benzo(a)pyrene	S19-Au23489	CP	%	84		70-130	Pass	
Benzo(b&i)fluoranthene	S19-Au23489	CP	%	84		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23489	CP	%	79		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23489	CP	%	86		70-130	Pass	
Chrysene	S19-Au23489	CP	%	92		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23489	CP	%	93		70-130	Pass	
Fluoranthene	S19-Au23489	CP	%	80		70-130	Pass	
Fluorene	S19-Au23489	CP	%	79		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23489	CP	%	88		70-130	Pass	
Naphthalene	S19-Au23489	CP	%	77		70-130	Pass	
Phenanthrene	S19-Au23489	CP	%	73		70-130	Pass	
Pyrene	S19-Au23489	CP	%	81		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	S19-Au23490	CP	%	105		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	S19-Au23490	CP	%	99		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au23491	CP	%	107		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	S19-Au23491	CP	%	83		70-130	Pass	
1,1,1-Trichloroethane	S19-Au23491	CP	%	114		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
1,2-Dichloroethane	S19-Au23491	CP	%	118		70-130	Pass	
Benzene	S19-Au23491	CP	%	94		70-130	Pass	
Ethylbenzene	S19-Au23491	CP	%	109		70-130	Pass	
m&p-Xylenes	S19-Au23491	CP	%	117		70-130	Pass	
o-Xylene	S19-Au23491	CP	%	118		70-130	Pass	
Toluene	S19-Au23491	CP	%	100		70-130	Pass	
Trichloroethene	S19-Au23491	CP	%	94		70-130	Pass	
Xylenes - Total	S19-Au23491	CP	%	117		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au23491	CP	%	124		70-130	Pass	
TRH C6-C10	S19-Au23491	CP	%	106		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au23491	CP	%	97		75-125	Pass	
Cadmium	S19-Au23491	CP	%	85		75-125	Pass	
Chromium	S19-Au23491	CP	%	101		75-125	Pass	
Copper	S19-Au23491	CP	%	105		75-125	Pass	
Lead	S19-Au23491	CP	%	107		75-125	Pass	
Mercury	S19-Au23491	CP	%	100		70-130	Pass	
Nickel	S19-Au23491	CP	%	102		75-125	Pass	
Zinc	S19-Au23491	CP	%	97		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23499	CP	%	84		70-130	Pass	
Acenaphthylene	S19-Au23499	CP	%	85		70-130	Pass	
Anthracene	S19-Au23499	CP	%	81		70-130	Pass	
Benz(a)anthracene	S19-Au23499	CP	%	91		70-130	Pass	
Benzo(a)pyrene	S19-Au23499	CP	%	86		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23499	CP	%	86		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23499	CP	%	108		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23499	CP	%	89		70-130	Pass	
Chrysene	S19-Au23499	CP	%	99		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23499	CP	%	80		70-130	Pass	
Fluoranthene	S19-Au23499	CP	%	83		70-130	Pass	
Fluorene	S19-Au23499	CP	%	86		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23499	CP	%	104		70-130	Pass	
Naphthalene	S19-Au23499	CP	%	88		70-130	Pass	
Phenanthrene	S19-Au23499	CP	%	86		70-130	Pass	
Pyrene	S19-Au23499	CP	%	83		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au25375	NCP	%	130		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	S19-Au25375	NCP	%	100		70-130	Pass	
1,1,1-Trichloroethane	S19-Au25375	NCP	%	102		70-130	Pass	
1,2-Dichlorobenzene	S19-Au25375	NCP	%	125		70-130	Pass	
1,2-Dichloroethane	S19-Au25375	NCP	%	105		70-130	Pass	
Benzene	S19-Au25375	NCP	%	105		70-130	Pass	
Ethylbenzene	S19-Au25375	NCP	%	101		70-130	Pass	
m&p-Xylenes	S19-Au25375	NCP	%	104		70-130	Pass	
o-Xylene	S19-Au25375	NCP	%	118		70-130	Pass	
Toluene	S19-Au25375	NCP	%	104		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	S19-Au25375	NCP	%	105		70-130	Pass	
Xylenes - Total	S19-Au25375	NCP	%	108		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au25375	NCP	%	100		70-130	Pass	
TRH C6-C10	S19-Au25375	NCP	%	128		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23510	CP	%	86		70-130	Pass	
Acenaphthylene	S19-Au23510	CP	%	85		70-130	Pass	
Anthracene	S19-Au23510	CP	%	81		70-130	Pass	
Benz(a)anthracene	S19-Au23510	CP	%	82		70-130	Pass	
Benzo(a)pyrene	S19-Au23510	CP	%	79		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23510	CP	%	80		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23510	CP	%	83		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23510	CP	%	83		70-130	Pass	
Chrysene	S19-Au23510	CP	%	88		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23510	CP	%	77		70-130	Pass	
Fluoranthene	S19-Au23510	CP	%	87		70-130	Pass	
Fluorene	S19-Au23510	CP	%	85		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23510	CP	%	88		70-130	Pass	
Naphthalene	S19-Au23510	CP	%	82		70-130	Pass	
Phenanthrene	S19-Au23510	CP	%	77		70-130	Pass	
Pyrene	S19-Au23510	CP	%	89		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au23518	CP	%	99		75-125	Pass	
Cadmium	S19-Au23518	CP	%	89		75-125	Pass	
Chromium	S19-Au23518	CP	%	111		75-125	Pass	
Copper	S19-Au23518	CP	%	112		75-125	Pass	
Lead	S19-Au23518	CP	%	112		75-125	Pass	
Mercury	S19-Au23518	CP	%	98		70-130	Pass	
Nickel	S19-Au23518	CP	%	109		75-125	Pass	
Zinc	S19-Au23518	CP	%	108		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23524	CP	%	86		70-130	Pass	
Acenaphthylene	S19-Au23524	CP	%	82		70-130	Pass	
Anthracene	S19-Au23524	CP	%	82		70-130	Pass	
Benz(a)anthracene	S19-Au23524	CP	%	86		70-130	Pass	
Benzo(a)pyrene	S19-Au23524	CP	%	76		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23524	CP	%	79		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23524	CP	%	84		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23524	CP	%	76		70-130	Pass	
Chrysene	S19-Au23524	CP	%	93		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23524	CP	%	78		70-130	Pass	
Fluoranthene	S19-Au23524	CP	%	90		70-130	Pass	
Fluorene	S19-Au23524	CP	%	83		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23524	CP	%	92		70-130	Pass	
Naphthalene	S19-Au23524	CP	%	80		70-130	Pass	
Phenanthrene	S19-Au23524	CP	%	80		70-130	Pass	
Pyrene	S19-Au23524	CP	%	91		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	S19-Au23528	CP	%	81		75-125	Pass	
Cadmium	S19-Au23528	CP	%	84		75-125	Pass	
Chromium	S19-Au23528	CP	%	81		75-125	Pass	
Copper	S19-Au23528	CP	%	88		75-125	Pass	
Lead	S19-Au23528	CP	%	87		75-125	Pass	
Mercury	S19-Au23528	CP	%	97		70-130	Pass	
Nickel	S19-Au23528	CP	%	85		75-125	Pass	
Zinc	S19-Au23528	CP	%	81		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23557	CP	%	83		70-130	Pass	
Acenaphthylene	S19-Au23557	CP	%	80		70-130	Pass	
Anthracene	S19-Au23557	CP	%	82		70-130	Pass	
Benz(a)anthracene	S19-Au23557	CP	%	74		70-130	Pass	
Benzo(a)pyrene	S19-Au23557	CP	%	72		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23557	CP	%	88		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23557	CP	%	73		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23557	CP	%	92		70-130	Pass	
Chrysene	S19-Au23557	CP	%	92		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23557	CP	%	76		70-130	Pass	
Fluoranthene	S19-Au23557	CP	%	92		70-130	Pass	
Fluorene	S19-Au23557	CP	%	78		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23557	CP	%	71		70-130	Pass	
Naphthalene	S19-Au23557	CP	%	86		70-130	Pass	
Phenanthrene	S19-Au23557	CP	%	75		70-130	Pass	
Pyrene	S19-Au23557	CP	%	94		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au23559	CP	%	98		75-125	Pass	
Cadmium	S19-Au23559	CP	%	86		75-125	Pass	
Chromium	S19-Au23559	CP	%	108		75-125	Pass	
Copper	S19-Au23559	CP	%	110		75-125	Pass	
Lead	S19-Au23559	CP	%	107		75-125	Pass	
Mercury	S19-Au23559	CP	%	104		70-130	Pass	
Nickel	S19-Au23559	CP	%	107		75-125	Pass	
Zinc	S19-Au23559	CP	%	105		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23568	CP	%	92		70-130	Pass	
Acenaphthylene	S19-Au23568	CP	%	92		70-130	Pass	
Anthracene	S19-Au23568	CP	%	90		70-130	Pass	
Benz(a)anthracene	S19-Au23568	CP	%	89		70-130	Pass	
Benzo(a)pyrene	S19-Au23568	CP	%	94		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23568	CP	%	95		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23568	CP	%	71		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23568	CP	%	100		70-130	Pass	
Chrysene	S19-Au23568	CP	%	104		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23568	CP	%	90		70-130	Pass	
Fluoranthene	S19-Au23568	CP	%	97		70-130	Pass	
Fluorene	S19-Au23568	CP	%	93		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23568	CP	%	72		70-130	Pass	
Naphthalene	S19-Au23568	CP	%	94		70-130	Pass	
Phenanthrene	S19-Au23568	CP	%	91		70-130	Pass	
Pyrene	S19-Au23568	CP	%	98		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au23570	CP	%	103		75-125	Pass	
Cadmium	S19-Au23570	CP	%	88		75-125	Pass	
Chromium	S19-Au23570	CP	%	106		75-125	Pass	
Copper	S19-Au23570	CP	%	108		75-125	Pass	
Lead	S19-Au23570	CP	%	111		75-125	Pass	
Mercury	S19-Au23570	CP	%	99		70-130	Pass	
Nickel	S19-Au23570	CP	%	107		75-125	Pass	
Zinc	S19-Au23570	CP	%	105		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23582	CP	%	110		70-130	Pass	
Acenaphthylene	S19-Au23582	CP	%	103		70-130	Pass	
Anthracene	S19-Au23582	CP	%	105		70-130	Pass	
Benz(a)anthracene	S19-Au23582	CP	%	91		70-130	Pass	
Benzo(a)pyrene	S19-Au23582	CP	%	95		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23582	CP	%	117		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23582	CP	%	104		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23582	CP	%	125		70-130	Pass	
Chrysene	S19-Au23582	CP	%	118		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23582	CP	%	105		70-130	Pass	
Fluoranthene	S19-Au23582	CP	%	119		70-130	Pass	
Fluorene	S19-Au23582	CP	%	103		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au23582	CP	%	95		70-130	Pass	
Naphthalene	S19-Au23582	CP	%	112		70-130	Pass	
Phenanthrene	S19-Au23582	CP	%	98		70-130	Pass	
Pyrene	S19-Au23582	CP	%	127		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au23583	CP	%	105		75-125	Pass	
Cadmium	S19-Au23583	CP	%	83		75-125	Pass	
Chromium	S19-Au23583	CP	%	109		75-125	Pass	
Copper	S19-Au23583	CP	%	112		75-125	Pass	
Lead	S19-Au23583	CP	%	113		75-125	Pass	
Mercury	S19-Au23583	CP	%	98		70-130	Pass	
Nickel	S19-Au23583	CP	%	110		75-125	Pass	
Zinc	S19-Au23583	CP	%	111		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	S19-Au23589	CP	%	114		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	S19-Au23589	CP	%	107		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au23596	CP	%	75		70-130	Pass	
Acenaphthylene	S19-Au23596	CP	%	75		70-130	Pass	
Anthracene	S19-Au23596	CP	%	71		70-130	Pass	
Benz(a)anthracene	S19-Au23596	CP	%	75		70-130	Pass	
Benzo(a)pyrene	S19-Au23596	CP	%	72		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au23596	CP	%	75		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au23596	CP	%	75		70-130	Pass	
Benzo(k)fluoranthene	S19-Au23596	CP	%	72		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	S19-Au23596	CP	%	79			70-130	Pass	
Dibenz(a,h)anthracene	S19-Au23596	CP	%	74			70-130	Pass	
Fluoranthene	S19-Au23596	CP	%	74			70-130	Pass	
Fluorene	S19-Au23596	CP	%	71			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S19-Au23596	CP	%	75			70-130	Pass	
Naphthalene	S19-Au23596	CP	%	72			70-130	Pass	
Phenanthrene	S19-Au23596	CP	%	75			70-130	Pass	
Pyrene	S19-Au23596	CP	%	75			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S19-Au23483	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S19-Au23483	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S19-Au23483	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S19-Au23483	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S19-Au23483	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S19-Au23483	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S19-Au23483	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S19-Au23483	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S19-Au23483	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S19-Au23483	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Iron	S19-Au23483	CP	mg/kg	5000	4700	7.0	30%	Pass	
Lead	S19-Au23483	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S19-Au23483	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S19-Au23483	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S19-Au23483	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S19-Au23484	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	M19-Au25041	NCP	uS/cm	63	67	5.6	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	M19-Au25041	NCP	pH Units	7.6	7.6	pass	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23484	CP	mg/kg	4.8	4.8	2.0	30%	Pass
Cadmium	S19-Au23484	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23484	CP	mg/kg	8.5	8.5	<1	30%	Pass
Copper	S19-Au23484	CP	mg/kg	7.9	8.0	1.0	30%	Pass
Iron	S19-Au23484	CP	mg/kg	30000	30000	<1	30%	Pass
Lead	S19-Au23484	CP	mg/kg	9.6	9.5	1.0	30%	Pass
Mercury	S19-Au23484	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23484	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23484	CP	mg/kg	21	21	1.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au23487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
% Moisture	S19-Au23487	CP	%	9.4	10	10	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23491	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au23491	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23491	CP	mg/kg	9.6	9.6	<1	30%	Pass
Copper	S19-Au23491	CP	mg/kg	8.2	8.2	<1	30%	Pass
Iron	S19-Au23491	CP	mg/kg	9400	9300	<1	30%	Pass
Lead	S19-Au23491	CP	mg/kg	6.8	6.8	1.0	30%	Pass
Mercury	S19-Au23491	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23491	CP	mg/kg	7.0	7.1	1.0	30%	Pass
Zinc	S19-Au23491	CP	mg/kg	29	28	1.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au23498	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au23498	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au23498	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S19-Au23498	CP	mg/kg	< 0.5	0.6	46	30%	Fail Q15
Benzo(a)pyrene	S19-Au23498	CP	mg/kg	0.6	0.8	31	30%	Fail Q15
Benzo(b&j)fluoranthene	S19-Au23498	CP	mg/kg	< 0.5	0.7	47	30%	Fail Q15
Benzo(g,h,i)perylene	S19-Au23498	CP	mg/kg	0.6	0.7	26	30%	Pass
Benzo(k)fluoranthene	S19-Au23498	CP	mg/kg	< 0.5	0.6	28	30%	Pass
Chrysene	S19-Au23498	CP	mg/kg	< 0.5	0.7	44	30%	Fail Q15
Dibenz(a,h)anthracene	S19-Au23498	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au23498	CP	mg/kg	1.0	1.7	51	30%	Fail Q15

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Fluorene	S19-Au23498	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au23498	CP	mg/kg	< 0.5	0.5	28	30%	Pass
Naphthalene	S19-Au23498	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au23498	CP	mg/kg	< 0.5	0.8	200	30%	Fail Q15
Pyrene	S19-Au23498	CP	mg/kg	1.0	1.5	45	30%	Fail Q15
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23498	CP	%	7.2	5.7	23	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23508	CP	%	10	11	10	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au23509	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23515	CP	mg/kg	2.5	2.7	7.0	30%	Pass
Cadmium	S19-Au23515	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23515	CP	mg/kg	7.3	7.1	2.0	30%	Pass
Copper	S19-Au23515	CP	mg/kg	6.4	6.4	1.0	30%	Pass
Iron	S19-Au23515	CP	mg/kg	11000	9400	20	30%	Pass
Lead	S19-Au23515	CP	mg/kg	13	13	4.0	30%	Pass
Mercury	S19-Au23515	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23515	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23515	CP	mg/kg	36	33	10	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23517	CP	%	20	19	1.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23518	CP	mg/kg	3.3	3.3	1.0	30%	Pass
Cadmium	S19-Au23518	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23518	CP	mg/kg	13	13	1.0	30%	Pass
Copper	S19-Au23518	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au23518	CP	mg/kg	16000	16000	2.0	30%	Pass
Lead	S19-Au23518	CP	mg/kg	6.2	6.2	<1	30%	Pass
Mercury	S19-Au23518	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23518	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23518	CP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate				Result 1	Result 2	RPD		
% Moisture	S19-Au23520	CP	%	18	18	<1	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Heavy Metals				Result 1	Result 2	RPD		
Cadmium	S19-Au23527	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23527	CP	mg/kg	10	9.3	9.0	30%	Pass
Copper	S19-Au23527	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au23527	CP	mg/kg	12000	13000	8.0	30%	Pass
Lead	S19-Au23527	CP	mg/kg	6.6	6.1	9.0	30%	Pass
Mercury	S19-Au23527	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23527	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23527	CP	mg/kg	5.7	< 5	26	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23528	CP	mg/kg	2.7	2.9	9.0	30%	Pass
Cadmium	S19-Au23528	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23528	CP	mg/kg	9.2	9.3	1.0	30%	Pass
Copper	S19-Au23528	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au23528	CP	mg/kg	13000	13000	<1	30%	Pass
Lead	S19-Au23528	CP	mg/kg	9.2	9.3	1.0	30%	Pass
Mercury	S19-Au23528	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23528	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23528	CP	mg/kg	11	11	2.0	30%	Pass
Duplicate				Result 1	Result 2	RPD		
% Moisture	S19-Au23530	CP	%	9.4	11	15	30%	Pass
Duplicate				Result 1	Result 2	RPD		
% Moisture	S19-Au23540	CP	%	19	20	3.0	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S19-Au23540	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S19-Au23540	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-Au23540	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S19-Au23540	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S19-Au23544	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S19-Au23544	CP	mg/kg	63	69	9.0	30%	Pass	
TRH C29-C36	S19-Au23544	CP	mg/kg	< 50	72	43	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S19-Au23544	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S19-Au23544	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S19-Au23544	CP	mg/kg	< 100	130	59	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S19-Au23549	CP	uS/cm	160	150	5.9	30%	Pass	
Organic Matter %	S19-Au23549	CP	% w/w	5.8	5.9	2.0	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S19-Au23549	CP	pH Units	6.9	7.0	pass	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S19-Au23550	CP	%	18	18	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au23556	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au23558	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2-Trichloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2,2-Tetrachloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromoethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichlorobenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloropropane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,3-Trichloropropane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,4-Trimethylbenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichlorobenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichloropropane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3,5-Trimethylbenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,4-Dichlorobenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	S19-Au23558	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
cis-1.2-Dichloroethene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S19-Au23558	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	S19-Au23558	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	S19-Au23558	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S19-Au23558	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total	S19-Au23558	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au23558	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au23558	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23558	CP	mg/kg	2.8	2.8	1.0	30%	Pass
Cadmium	S19-Au23558	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23558	CP	mg/kg	6.0	6.2	2.0	30%	Pass
Copper	S19-Au23558	CP	mg/kg	8.2	8.3	2.0	30%	Pass
Iron	S19-Au23558	CP	mg/kg	9000	9200	2.0	30%	Pass
Lead	S19-Au23558	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au23558	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23558	CP	mg/kg	9.7	10	3.0	30%	Pass
Zinc	S19-Au23558	CP	mg/kg	20	20	3.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23559	CP	mg/kg	3.0	2.8	6.0	30%	Pass
Cadmium	S19-Au23559	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23559	CP	mg/kg	13	13	<1	30%	Pass
Copper	S19-Au23559	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au23559	CP	mg/kg	58000	58000	1.0	30%	Pass
Lead	S19-Au23559	CP	mg/kg	18	18	<1	30%	Pass
Mercury	S19-Au23559	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23559	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23559	CP	mg/kg	5.8	6.3	9.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23561	CP	%	6.9	6.2	12	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au23566	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au23566	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S19-Au23566	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23569	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au23569	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23569	CP	mg/kg	6.3	6.8	7.0	30%	Pass
Copper	S19-Au23569	CP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Iron	S19-Au23569	CP	mg/kg	6200	6300	1.0	30%	Pass
Lead	S19-Au23569	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au23569	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23569	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23569	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23570	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au23570	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23570	CP	mg/kg	6.7	6.7	1.0	30%	Pass
Copper	S19-Au23570	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au23570	CP	mg/kg	6400	6500	1.0	30%	Pass
Lead	S19-Au23570	CP	mg/kg	5.8	5.7	1.0	30%	Pass
Mercury	S19-Au23570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23570	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23570	CP	mg/kg	18	19	2.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23572	CP	%	4.0	4.3	7.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23582	CP	mg/kg	3.9	4.0	2.0	30%	Pass
Cadmium	S19-Au23582	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23582	CP	mg/kg	9.2	11	16	30%	Pass
Copper	S19-Au23582	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au23582	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au23582	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23582	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23582	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23583	CP	%	11	8.7	22	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23583	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au23583	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23583	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au23583	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au23583	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au23583	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au23583	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23583	CP	mg/kg	6.4	7.3	12	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au23584	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au23584	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au23584	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au23584	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au23584	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au23584	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au23589	CP	mg/kg	< 20	< 20	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	S19-Au23589	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	S19-Au23589	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	S19-Au23589	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	S19-Au23589	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	S19-Au23589	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total	S19-Au23589	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au23589	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au23589	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au23596	CP	%	11	11	4.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au23596	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au23596	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au23596	CP	mg/kg	6.3	7.2	14	30%	Pass
Copper	S19-Au23596	CP	mg/kg	< 5	5.5	16	30%	Pass
Iron	S19-Au23596	CP	mg/kg	8500	10000	16	30%	Pass
Lead	S19-Au23596	CP	mg/kg	7.2	8.4	15	30%	Pass
Mercury	S19-Au23596	CP	mg/kg	0.2	0.2	10	30%	Pass
Nickel	S19-Au23596	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au23596	CP	mg/kg	31	38	20	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25918	CP	%	8.1	8.1	1.0	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
M01	Microbiological Testing performed outside the recommended holding time
M10	NATA accreditation does not cover the performance of this service in soil matrices
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)
Nandhini Uthayakumaran	Senior Analyst-Microbiology (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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JBS & G Australia (NSW) P/L
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NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217 & 14271

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill

Report 671628-W
 Project name CENTRAL COAST DSI
 Project ID 56387
 Received Date Aug 16, 2019

Client Sample ID			SW01 Water S19-Au23597 Aug 14, 2019	SW02 Water S19-Au23598 Aug 14, 2019	SW03 Water S19-Au23599 Aug 14, 2019	SW04 Water S19-Au23600 Aug 14, 2019
Sample Matrix	LOR	Unit				
Eurofins Sample No.						
Date Sampled						
Test/Reference						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			SW01 Water S19-Au23597 Aug 14, 2019	SW02 Water S19-Au23598 Aug 14, 2019	SW03 Water S19-Au23599 Aug 14, 2019	SW04 Water S19-Au23600 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	107	108	111	110
Toluene-d8 (surr.)	1	%	104	105	106	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g,h,i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a,h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Client Sample ID			SW01	SW02	SW03	SW04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au23597	S19-Au23598	S19-Au23599	S19-Au23600
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0	< 0	< 0	< 0
2-Fluorobiphenyl (surr.)	1	%	119	114	87	111
p-Terphenyl-d14 (surr.)	1	%	128	135	98	127
Ammonia (as N)						
Ammonia (as N)	0.01	mg/L	0.08	1.6	0.57	0.19
Conductivity (at 25°C)						
Conductivity (at 25°C)	1	uS/cm	170	190	170	150
Nitrate (as N)						
Nitrate (as N)	0.02	mg/L	0.32	0.49	0.35	0.98
Nitrite (as N)						
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
pH (at 25°C)						
pH (at 25°C)	0.1	pH Units	7.1	3.6	3.6	3.9
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO ₃)	20	mg/L	25	< 20	< 20	< 20
Carbonate Alkalinity (as CaCO ₃)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO ₃)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO ₃)	20	mg/L	25	< 20	< 20	< 20
Heavy Metals						
Arsenic	0.001	mg/L	0.001	< 0.001	0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.003	0.007	0.012	0.008
Copper	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Lead	0.001	mg/L	0.004	0.005	0.009	0.012
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.002	< 0.001	0.002	0.002
Zinc	0.005	mg/L	0.021	0.012	0.018	0.020
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	^{N09} 0.07	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	109	110	115	111
13C5-PFPeA (surr.)	1	%	100	111	100	113
13C5-PFHxA (surr.)	1	%	97	102	102	105
13C4-PFHpA (surr.)	1	%	122	97	121	118
13C8-PFOA (surr.)	1	%	97	85	90	88
13C5-PFNA (surr.)	1	%	141	102	119	114
13C6-PFDA (surr.)	1	%	109	87	105	101
13C2-PFUnDA (surr.)	1	%	117	85	110	107

Client Sample ID			SW01 Water S19-Au23597 Aug 14, 2019	SW02 Water S19-Au23598 Aug 14, 2019	SW03 Water S19-Au23599 Aug 14, 2019	SW04 Water S19-Au23600 Aug 14, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	104	76	89	95
13C2-PFTeDA (surr.)	1	%	95	77	77	76
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	106	79	98	98
D3-N-MeFOSA (surr.)	1	%	74	58	73	72
D5-N-EtFOSA (surr.)	1	%	60	46	54	56
D7-N-MeFOSE (surr.)	1	%	80	46	85	91
D9-N-EtFOSE (surr.)	1	%	79	67	85	91
D5-N-EtFOSAA (surr.)	1	%	83	66	83	78
D3-N-MeFOSAA (surr.)	1	%	80	64	74	70
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	^{N09} 0.05	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	110	103	99	95
18O2-PFHxS (surr.)	1	%	167	140	141	145
13C8-PFOS (surr.)	1	%	108	86	94	93
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	96	91	88	82
13C2-6:2 FTSA (surr.)	1	%	175	112	126	116
13C2-8:2 FTSA (surr.)	1	%	82	64	85	73
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	0.05	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	0.12	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	0.12	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	0.14	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	0.14	< 0.1	< 0.1

Client Sample ID			QC01_SW	RIN03	RIN04	R20 ^{TS}
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au23601	S19-Au23602	S19-Au23603	S19-Au23604
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
BTEX						
Benzene	0.001	mg/L	-	-	-	92
Toluene	0.001	mg/L	-	-	-	110
Ethylbenzene	0.001	mg/L	-	-	-	110
m&p-Xylenes	0.002	mg/L	-	-	-	98
o-Xylene	0.001	mg/L	-	-	-	110
Xylenes - Total	0.003	mg/L	-	-	-	100
4-Bromofluorobenzene (surr.)	1	%	-	-	-	85
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Bromoform	0.001	mg/L	< 0.001	0.001	0.001	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1,2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
cis-1,3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-

Client Sample ID			QC01_SW	RIN03	RIN04	R20 ^{TS}
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au23601	S19-Au23602	S19-Au23603	S19-Au23604
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	-
4-Bromofluorobenzene (surr.)	1	%	110	103	100	-
Toluene-d8 (surr.)	1	%	106	138	124	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(g,h,i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Dibenz(a,h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-

Client Sample ID			QC01_SW	RIN03	RIN04	R20 ^{TS}
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au23601	S19-Au23602	S19-Au23603	S19-Au23604
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Total PAH*	0.00001	mg/L	< 0	< 0	< 0	-
2-Fluorobiphenyl (surr.)	1	%	89	64	74	-
p-Terphenyl-d14 (surr.)	1	%	102	51	56	-
Ammonia (as N)						
Ammonia (as N)	0.01	mg/L	0.08	-	-	-
Conductivity (at 25°C)						
Conductivity (at 25°C)	1	uS/cm	200	-	-	-
Nitrate (as N)						
Nitrate (as N)	0.02	mg/L	0.32	-	-	-
Nitrite (as N)						
Nitrite (as N)	0.02	mg/L	< 0.02	-	-	-
pH (at 25°C)						
pH (at 25°C)	0.1	pH Units	4.2	-	-	-
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO ₃)	20	mg/L	< 20	-	-	-
Carbonate Alkalinity (as CaCO ₃)	10	mg/L	< 10	-	-	-
Hydroxide Alkalinity (as CaCO ₃)	20	mg/L	< 20	-	-	-
Total Alkalinity (as CaCO ₃)	20	mg/L	< 20	-	-	-
Heavy Metals						
Arsenic	0.001	mg/L	0.001	< 0.001	< 0.001	-
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Chromium	0.001	mg/L	0.003	< 0.001	< 0.001	-
Copper	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Lead	0.001	mg/L	0.004	< 0.001	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Nickel	0.001	mg/L	0.002	< 0.001	< 0.001	-
Zinc	0.005	mg/L	0.020	< 0.005	< 0.005	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	-	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
13C4-PFBA (surr.)	1	%	86	-	-	-
13C5-PFPeA (surr.)	1	%	96	-	-	-
13C5-PFHxA (surr.)	1	%	80	-	-	-
13C4-PFHpA (surr.)	1	%	89	-	-	-
13C8-PFOA (surr.)	1	%	77	-	-	-
13C5-PFNA (surr.)	1	%	103	-	-	-
13C6-PFDA (surr.)	1	%	81	-	-	-
13C2-PFUnDA (surr.)	1	%	85	-	-	-
13C2-PFDoDA (surr.)	1	%	78	-	-	-
13C2-PFTeDA (surr.)	1	%	69	-	-	-

Client Sample ID			QC01_SW	RIN03	RIN04	R20 ^{TS}
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au23601	S19-Au23602	S19-Au23603	S19-Au23604
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
13C8-FOSA (surr.)	1	%	80	-	-	-
D3-N-MeFOSA (surr.)	1	%	53	-	-	-
D5-N-EtFOSA (surr.)	1	%	43	-	-	-
D7-N-MeFOSE (surr.)	1	%	52	-	-	-
D9-N-EtFOSE (surr.)	1	%	55	-	-	-
D5-N-EtFOSAA (surr.)	1	%	73	-	-	-
D3-N-MeFOSAA (surr.)	1	%	67	-	-	-
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	-	-	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	-	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	-	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	-	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	-	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	-	-	-
13C3-PFBS (surr.)	1	%	80	-	-	-
18O2-PFHxS (surr.)	1	%	119	-	-	-
13C8-PFOS (surr.)	1	%	75	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01	-	-	-
13C2-4:2 FTSA (surr.)	1	%	77	-	-	-
13C2-6:2 FTSA (surr.)	1	%	119	-	-	-
13C2-8:2 FTSA (surr.)	1	%	51	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	-	-	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	-	-	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	-	-	-

Client Sample ID			TB	BLANK01-SW
Sample Matrix			Water	Water
Eurofins Sample No.			S19-Au23605	S19-Au25917
Date Sampled			Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	88	-
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	-	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	-	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	-	< 0.01
13C4-PFBA (surr.)	1	%	-	81
13C5-PFPeA (surr.)	1	%	-	83
13C5-PFHxA (surr.)	1	%	-	85
13C4-PFHpA (surr.)	1	%	-	86
13C8-PFOA (surr.)	1	%	-	91
13C5-PFNA (surr.)	1	%	-	92
13C6-PFDA (surr.)	1	%	-	78
13C2-PFUnDA (surr.)	1	%	-	93
13C2-PFDoDA (surr.)	1	%	-	68
13C2-PFTeDA (surr.)	1	%	-	67
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	-	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	-	< 0.05
13C8-FOSA (surr.)	1	%	-	58
D3-N-MeFOSA (surr.)	1	%	-	53
D5-N-EtFOSA (surr.)	1	%	-	56
D7-N-MeFOSE (surr.)	1	%	-	56
D9-N-EtFOSE (surr.)	1	%	-	57
D5-N-EtFOSAA (surr.)	1	%	-	109
D3-N-MeFOSAA (surr.)	1	%	-	100

Client Sample ID			TB Water	BLANK01-SW Water
Sample Matrix			S19-Au23605	S19-Au25917
Eurofins Sample No.			Aug 14, 2019	Aug 14, 2019
Date Sampled				
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFASs)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	-	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	-	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	-	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	-	< 0.01
13C3-PFBS (surr.)	1	%	-	93
18O2-PFHxS (surr.)	1	%	-	86
13C8-PFOS (surr.)	1	%	-	85
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	139
13C2-6:2 FTSA (surr.)	1	%	-	111
13C2-8:2 FTSA (surr.)	1	%	-	75
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	-	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 22, 2019	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 19, 2019	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 22, 2019	
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 17, 2019	14 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Aug 19, 2019	7 Days
Polycyclic Aromatic Hydrocarbons (Trace level) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)	Melbourne	Aug 22, 2019	7 Days
Ammonia (as N) - Method: LTM-INO-4200 Ammonia by Discrete Analyser	Melbourne	Aug 17, 2019	28 Days
Conductivity (at 25°C) - Method: LTM-INO-4030 Conductivity	Melbourne	Aug 17, 2019	28 Days
Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Aug 17, 2019	28 Days
Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Aug 17, 2019	2 Days
pH (at 25°C) - Method: LTM-GEN-7090 pH in water by ISE	Melbourne	Aug 17, 2019	0 Hours
Alkalinity (speciated) - Method: LTM-INO-4250 Alkalinity by Electrometric Titration	Melbourne	Aug 17, 2019	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 21, 2019	180 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X				X		
Perth Laboratory - NATA Site # 23736																																	
External Laboratory																																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																												
1	BH22 0.0-0.1	Aug 14, 2019		Soil	S19-Au23479		X											X	X			X											
2	BH22 0.9-1.0	Aug 14, 2019		Soil	S19-Au23480													X				X	X					X					
3	BH25/MW04 0.0-0.1	Aug 14, 2019		Soil	S19-Au23481		X											X				X	X					X					
4	BH25/MW04 0.2-0.3	Aug 14, 2019		Soil	S19-Au23482																				X						X		
5	BH25/MW04 0.9-1.0	Aug 14, 2019		Soil	S19-Au23483													X				X	X					X					
6	BH25/MW04 5.5-5.6	Aug 14, 2019		Soil	S19-Au23484							X			X	X		X				X					X						
7	BH26 0.0-0.1	Aug 14, 2019		Soil	S19-Au23485													X	X			X											

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X				X	
Perth Laboratory - NATA Site # 23736																														
8	BH29 0.0-0.1	Aug 14, 2019															X	X	X											
9	BH29 0.4-0.5	Aug 14, 2019																												
10	QC01_PFAS	Aug 14, 2019																						X					X	
11	BH30 0.0-0.1	Aug 14, 2019															X	X	X											
12	BH30 0.4-0.5	Aug 14, 2019															X									X				
13	BH31 0.0-0.1	Aug 14, 2019															X									X				
14	BH31 1.4-1.5	Aug 14, 2019															X													
15	BH34 0.0-0.1	Aug 14, 2019															X	X												
16	BH34 0.9-1.0	Aug 14, 2019															X													
17	BH148 0.0-0.1	Aug 14, 2019															X													
18	BH148 0.4-0.5	Aug 14, 2019															X													
19	BH149 0.0-0.1	Aug 14, 2019															X													

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence / Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271					X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X				X	
Perth Laboratory - NATA Site # 23736																															
20	BH150 0.0-0.1	Aug 14, 2019		Soil	S19-Au23498	X												X			X		X								
21	BH004/MW03 0.0-0.1	Aug 14, 2019		Soil	S19-Au23499													X	X		X		X					X			
22	BH004/MW03 0.2-0.3	Aug 14, 2019		Soil	S19-Au23500	X												X	X	X	X		X					X			
23	BH004/MW03 0.4-0.5	Aug 14, 2019		Soil	S19-Au23501													X	X		X		X								
24	BH005 0.0-0.1	Aug 14, 2019		Soil	S19-Au23502	X												X			X		X								
25	BH014 0.0-0.1	Aug 14, 2019		Soil	S19-Au23503					X																					
26	BH014 0.2-0.3	Aug 14, 2019		Soil	S19-Au23504													X			X		X					X			
27	BH15 0.0-0.1	Aug 14, 2019		Soil	S19-Au23505	X												X			X		X								
28	BH15 0.4-0.5	Aug 14, 2019		Soil	S19-Au23506													X			X		X								
29	BH16 0.0-0.1	Aug 14, 2019		Soil	S19-Au23507													X			X		X								

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Melbourne Laboratory - NATA Site # 1254 & 14271					X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X				X	
Perth Laboratory - NATA Site # 23736																															
30	BH17 0.0-0.1	Aug 14, 2019		Soil	S19-Au23508	X												X	X	X		X	X				X				
31	TP12 0.0-0.1	Aug 13, 2019		Soil	S19-Au23509													X				X	X								
32	TP12 0.9-1.0	Aug 13, 2019		Soil	S19-Au23510													X				X	X				X				
33	TP11 0.0-0.1	Aug 13, 2019		Soil	S19-Au23511	X																									
34	TP11 0.4-0.5	Aug 13, 2019		Soil	S19-Au23512													X	X			X	X								
35	TP11 1.4-1.5	Aug 13, 2019		Soil	S19-Au23513													X				X	X								
36	TP11 1.9-2.0	Aug 13, 2019		Soil	S19-Au23514													X				X	X								
37	TP09 0.0-0.1	Aug 13, 2019		Soil	S19-Au23515	X												X	X	X		X	X								
38	TP09 0.4-0.5	Aug 13, 2019		Soil	S19-Au23516																		X	X			X				
39	TP09 3.9-4.0	Aug 13, 2019		Soil	S19-Au23517				X								X						X					X			
40	TP09 4.4-4.5	Aug 13, 2019		Soil	S19-Au23518													X				X	X								
41	TP10 0.0-0.1	Aug 13, 2019		Soil	S19-Au23519	X												X	X			X	X				X				

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Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X				X		
Perth Laboratory - NATA Site # 23736																																	
42	TP10 1.4-1.5	Aug 13, 2019		Soil	S19-Au23520														X			X		X									
43	TP10 2.9-3.0	Aug 13, 2019		Soil	S19-Au23521																	X		X									
44	TP144 0.0-0.1	Aug 13, 2019		Soil	S19-Au23522		X												X	X		X	X	X				X					
45	TP144 0.9-1.0	Aug 13, 2019		Soil	S19-Au23523														X			X	X	X				X					
46	TP144 1.9-2.0	Aug 13, 2019		Soil	S19-Au23524														X			X		X									
47	TP144 2.9-3.0	Aug 13, 2019		Soil	S19-Au23525		X												X	X		X		X									
48	TP146 0.0-0.1	Aug 13, 2019		Soil	S19-Au23526														X	X	X	X		X	X			X					
49	TP146 0.3-0.4	Aug 13, 2019		Soil	S19-Au23527														X	X		X		X	X			X					
50	TP146 0.9-1.0	Aug 13, 2019		Soil	S19-Au23528														X			X		X									
51	TP146 1.9-2.0	Aug 13, 2019		Soil	S19-Au23529														X			X		X									
52	TP145 0.0-0.1	Aug 13, 2019		Soil	S19-Au23530														X	X		X		X									
53	TP145 0.4-0.5	Aug 13, 2019		Soil	S19-Au23531		X																	X	X			X					

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																									
Brisbane Laboratory - NATA Site # 20794																									X	X	X					X	
Perth Laboratory - NATA Site # 23736																																	
54	TP145 0.9-1.0	Aug 13, 2019		Soil	S19-Au23532																X	X		X									
55	TP145 2.4-2.5	Aug 13, 2019		Soil	S19-Au23533														X			X	X					X					
56	TP145 3.4-3.5	Aug 13, 2019		Soil	S19-Au23534														X			X	X										
57	TP19 0.0-0.1	Aug 13, 2019		Soil	S19-Au23535		X												X			X	X					X					
58	TP19 0.4-0.5	Aug 13, 2019		Soil	S19-Au23536														X	X	X	X	X										
59	TP19 1.4-1.5	Aug 13, 2019		Soil	S19-Au23537														X			X	X					X					
60	TP19 2.4-2.5	Aug 13, 2019		Soil	S19-Au23538														X			X	X										
61	QC04	Aug 13, 2019		Soil	S19-Au23539														X			X	X										
62	BH70/MW08 0.0-0.1	Aug 13, 2019		Soil	S19-Au23540														X			X	X					X		X			
63	QA03	Aug 13, 2019		Soil	S19-Au23541		X												X			X	X					X					
64	BH38/MW05 0.0-0.1	Aug 13, 2019		Soil	S19-Au23542		X												X			X	X										

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Project ID:	56387	Fax:		Contact Name:	Ryan Lill

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
65	BH38/MW05 0.2-0.3	Aug 13, 2019														X				X										
66	BH39 0.0-0.1	Aug 13, 2019														X				X		X					X			
67	BH39 0.4-0.5	Aug 13, 2019														X				X		X								
68	BH27 0.0-0.1	Aug 13, 2019														X				X		X								
69	BH147 0.0-0.1	Aug 13, 2019														X	X			X		X				X				
70	BH152 0.0-0.1	Aug 14, 2019														X				X		X								
71	BH152 2.9-3.0	Aug 14, 2019														X		X		X		X				X				
72	BH152 6.4-6.5	Aug 14, 2019														X				X		X								
73	BH153 0.0-0.1	Aug 14, 2019														X	X			X		X								
74	BH153 1.9-2.0	Aug 14, 2019														X		X		X		X								
75	BH153 3.9-4.0	Aug 14, 2019														X				X		X								

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Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Sydney Laboratory - NATA Site # 18217					X	X																											
Brisbane Laboratory - NATA Site # 20794																								X	X	X			X				
Perth Laboratory - NATA Site # 23736																																	
76	BH153 FRAG-01	Aug 14, 2019	Building Materials			X																											
77	QC05	Aug 14, 2019	Soil		X												X	X	X		X		X	X			X						
78	QC10	Aug 14, 2019	Soil														X				X		X	X			X						
79	QC11	Aug 14, 2019	Soil														X				X		X	X									
80	TP54 0.0-0.1	Aug 14, 2019	Soil		X												X				X		X	X			X						
81	TP54 1.4-1.5	Aug 14, 2019	Soil														X				X		X	X									
82	QC08	Aug 14, 2019	Soil														X				X		X	X									
83	TP55 0.0-0.1	Aug 14, 2019	Soil														X	X			X		X	X									
84	TP55 0.9-1.0	Aug 14, 2019	Soil														X				X		X	X									
85	TP151 0.0-0.1	Aug 14, 2019	Soil					X								X	X	X	X		X		X	X			X	X					
86	TP151 0.9-1.0	Aug 14, 2019	Soil													X	X	X	X		X		X	X			X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217					X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X			X	
Perth Laboratory - NATA Site # 23736																														
87	TP154 0.0-0.1	Aug 14, 2019	Soil	S19-Au23565	X																									
88	QC09	Aug 14, 2019	Soil	S19-Au23566													X		X		X									
89	QC12	Aug 14, 2019	Soil	S19-Au23567													X				X									
90	TP18 0.0-0.1	Aug 14, 2019	Soil	S19-Au23568	X												X	X			X	X	X			X				
91	TP18 1.4-1.5	Aug 14, 2019	Soil	S19-Au23569													X		X		X	X	X			X				
92	TP21 0.0-0.1	Aug 14, 2019	Soil	S19-Au23570	X													X			X		X							
93	TP21 0.9-1.0	Aug 14, 2019	Soil	S19-Au23571														X	X		X		X							
94	TP23 0.0-0.1	Aug 14, 2019	Soil	S19-Au23572	X													X					X							
95	TP23 0.3-0.4	Aug 14, 2019	Soil	S19-Au23573													X	X			X		X							
96	TP23 2.9-3.0	Aug 14, 2019	Soil	S19-Au23574	X												X	X			X	X	X			X				
97	TP24 0.0-0.05	Aug 14, 2019	Soil	S19-Au23575	X												X				X		X							
98	TP24 1.4-1.5	Aug 14, 2019	Soil	S19-Au23576	X												X		X		X		X							

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X																										
Brisbane Laboratory - NATA Site # 20794																									X	X	X							
Perth Laboratory - NATA Site # 23736																																		
99	TP24 3.4-3.5	Aug 14, 2019		Soil	S19-Au23577													X				X			X									
100	TP28 0.0-0.1	Aug 14, 2019		Soil	S19-Au23578		X																											
101	TP28 0.4-0.5	Aug 14, 2019		Soil	S19-Au23579													X				X			X									
102	BH32 0.0-0.1	Aug 14, 2019		Soil	S19-Au23580		X												X	X					X									
103	TP32 0.4-0.5	Aug 14, 2019		Soil	S19-Au23581													X				X			X									
104	TP32 1.4-1.5	Aug 14, 2019		Soil	S19-Au23582													X				X			X									
105	TP35 0.0-0.1	Aug 14, 2019		Soil	S19-Au23583		X											X	X			X			X									
106	TP35 1.9-2.0	Aug 14, 2019		Soil	S19-Au23584													X				X		X	X			X						
107	TP35 4.2-4.3	Aug 14, 2019		Soil	S19-Au23585													X				X			X									
108	TP35 FRAG01	Aug 14, 2019		Building Materials	S19-Au23586			X																										
109	TP35 FRAG02	Aug 14, 2019		Building Materials	S19-Au23587			X																										

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																										X	X	X			X	
Perth Laboratory - NATA Site # 23736																																
110	TP36 0.0-0.15	Aug 14, 2019		Soil	S19-Au23588		X												X			X			X							
111	TP36 1.4-1.5	Aug 14, 2019		Soil	S19-Au23589														X		X	X		X	X			X				
112	TP36 FRAG01	Aug 14, 2019		Building Materials	S19-Au23590			X																								
113	TP40 0.0-0.1	Aug 14, 2019		Soil	S19-Au23591		X												X			X			X							
114	TP40 0.9-1.0	Aug 14, 2019		Soil	S19-Au23592														X			X		X	X							
115	TP41 0.0-0.1	Aug 14, 2019		Soil	S19-Au23593		X																	X	X			X				
116	TP41 0.3-0.4	Aug 14, 2019		Soil	S19-Au23594														X			X		X	X							
117	TP42 0.0-0.1	Aug 14, 2019		Soil	S19-Au23595		X												X	X	X		X	X	X			X				
118	QC06	Aug 14, 2019		Soil	S19-Au23596		X												X	X	X		X	X	X			X				
119	SW01	Aug 14, 2019		Water	S19-Au23597	X			X				X	X		X						X	X	X				X		X	X	
120	SW02	Aug 14, 2019		Water	S19-Au23598	X			X				X	X		X						X	X	X				X		X	X	

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217					X	X																										
Brisbane Laboratory - NATA Site # 20794																								X	X	X					X	
Perth Laboratory - NATA Site # 23736																																
121	SW03	Aug 14, 2019					X				X	X			X					X	X						X		X	X	X	
122	SW04	Aug 14, 2019					X				X	X			X					X	X						X		X	X	X	
123	QC01_SW	Aug 14, 2019					X				X	X			X					X	X						X		X	X	X	
124	RIN03	Aug 14, 2019																									X				X	
125	RIN04	Aug 14, 2019																			X						X				X	
126	TS	Aug 14, 2019																				X										
127	TB	Aug 14, 2019																				X										
128	BH103 0.0-0.1	Aug 14, 2019																							X						X	
129	BH37 0.0-0.1	Aug 14, 2019																						X							X	
130	BH13 0.0-0.1	Aug 14, 2019																						X							X	
131	BH59 0.0-0.1	Aug 14, 2019																						X							X	
132	BH17 0.9-1.0	Aug 14, 2019																							X							

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X		
Perth Laboratory - NATA Site # 23736																														
133	BH22 0.4-0.5	Aug 14, 2019																												
134	BH22 1.4-1.5	Aug 14, 2019																												
135	BH22 2.4-2.5	Aug 14, 2019																												
136	BH22 3.4-3.5	Aug 14, 2019																												
137	BH25/MW04 0.4-0.5	Aug 14, 2019																												
138	BH26 0.2-0.3	Aug 14, 2019																												
139	BH26 0.4-0.5	Aug 14, 2019																												
140	BH29 0.9-1.0	Aug 14, 2019																												
141	BH30 0.9-1.0	Aug 14, 2019																												
142	BH30 1.4-1.5	Aug 14, 2019																												
143	BH31 0.4-0.5	Aug 14, 2019																												

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217				X	X																										
Brisbane Laboratory - NATA Site # 20794																							X	X	X				X		
Perth Laboratory - NATA Site # 23736																															
144	BH34 0.4-0.5	Aug 14, 2019																													
145	BH34 1.4-1.5	Aug 14, 2019																													
146	BH34 2.4-2.5	Aug 14, 2019																													
147	BH34 3.4-3.5	Aug 14, 2019																													
148	BH148 0.2-0.3	Aug 14, 2019																													
149	BH149 0.2-0.3	Aug 14, 2019																													
150	BH04/MW03 0.9-1.0	Aug 14, 2019																													
151	BH05 0.2-0.3	Aug 14, 2019																													
152	BH05 0.4-0.5	Aug 14, 2019																													
153	BH014 0.4-0.5	Aug 14, 2019																													
154	BH014 0.9-1.0	Aug 14, 2019																													

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																						X	X	X				X	
Perth Laboratory - NATA Site # 23736																													
155	BH15 0.2-0.3	Aug 14, 2019						X																					
156	BH16 0.2-0.3	Aug 14, 2019						X																					
157	BH16 0.4-0.5	Aug 14, 2019						X																					
158	BH17 0.4-0.5	Aug 14, 2019						X																					
159	TP12 0.4-0.5	Aug 13, 2019						X																					
160	TP11 0.9-1.0	Aug 13, 2019						X																					
161	TP09 0.9-1.0	Aug 13, 2019						X																					
162	TP09 1.9-2.0	Aug 13, 2019						X																					
163	TP09 2.9-3.0	Aug 13, 2019						X																					
164	TP10 0.4-0.5	Aug 13, 2019						X																					
165	TP10 0.9-1.0	Aug 13, 2019						X																					
166	TP10 2.4-2.5	Aug 13, 2019						X																					

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X				X	
Perth Laboratory - NATA Site # 23736																														
167	TP144 0.4-0.5	Aug 13, 2019							X																					
168	TP144 1.4-1.5	Aug 13, 2019						X																						
169	TP144 2.4-2.5	Aug 13, 2019						X																						
170	TP144 3.4-3.5	Aug 13, 2019						X																						
171	TP144 3.9-4.0	Aug 13, 2019						X																						
172	TP144 4.2-4.3	Aug 13, 2019						X																						
173	TP146 1.4-1.5	Aug 13, 2019						X																						
174	TP146 2.4-2.5	Aug 13, 2019						X																						
175	TP146 2.9-3.0	Aug 13, 2019						X																						
176	TP146 3.4-3.5	Aug 13, 2019						X																						
177	TP146 3.9-4.0	Aug 13, 2019						X																						
178	TP145 1.4-1.5	Aug 13, 2019						X																						

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																								X	X	X					X	
Perth Laboratory - NATA Site # 23736																																
179	TP145 1.9-2.0	Aug 13, 2019		Soil	S19-Au23658						X																					
180	TP145 2.9-3.0	Aug 13, 2019		Soil	S19-Au23659						X																					
181	TP145 3.9-4.0	Aug 13, 2019		Soil	S19-Au23660						X																					
182	TP19 0.2-0.3	Aug 13, 2019		Soil	S19-Au23661						X																					
183	TP19 0.9-1.0	Aug 13, 2019		Soil	S19-Au23662						X																					
184	TP19 1.9-2.0	Aug 13, 2019		Soil	S19-Au23663						X																					
185	TP19 2.9-3.0	Aug 13, 2019		Soil	S19-Au23664						X																					
186	BH70/MW08 0.2-0.3	Aug 13, 2019		Soil	S19-Au23665						X																					
187	BH70/MW08 0.4-0.5	Aug 13, 2019		Soil	S19-Au23666						X																					
188	BH38/MW05 0.4-0.5	Aug 13, 2019		Soil	S19-Au23667						X																					

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Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
189	BH38/MW05 0.9-1.0	Aug 13, 2019							X																				
190	BH39 0.2-0.3	Aug 13, 2019						X																					
191	BH39 0.9-1.0	Aug 13, 2019						X																					
192	BH27 0.2-0.3	Aug 13, 2019						X																					
193	BH27 0.4-0.5	Aug 13, 2019						X																					
194	BH27 0.9-1.0	Aug 13, 2019						X																					
195	BH147 0.3-0.4	Aug 13, 2019						X																					
196	BH147 0.9-1.0	Aug 13, 2019						X																					
197	BH150 0.2-0.3	Aug 14, 2019						X																					
198	BH150 0.4-0.5	Aug 14, 2019						X																					
199	BH150 0.9-1.0	Aug 14, 2019						X																					

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Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																								
Brisbane Laboratory - NATA Site # 20794																							X	X	X			X	
Perth Laboratory - NATA Site # 23736																													
200	BH152 0.9-1.0	Aug 14, 2019						X																					
201	BH152 4.9-5.0	Aug 14, 2019						X																					
202	BH153 0.4-0.5	Aug 14, 2019						X																					
203	BH153 0.9-1.0	Aug 14, 2019						X																					
204	BH153 2.9-3.0	Aug 14, 2019						X																					
205	BH153 5.3-5.4	Aug 14, 2019						X																					
206	TP42 0.7-0.8	Aug 14, 2019						X																					
207	TP54 0.4-0.5	Aug 14, 2019						X																					
208	TP54 0.9-1.0	Aug 14, 2019						X																					
209	TP55 0.4-0.5	Aug 14, 2019						X																					
210	TP151 0.4-0.5	Aug 14, 2019						X																					
211	TP151 0.9-1.0	Aug 14, 2019						X																					

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Melbourne Laboratory - NATA Site # 1254 & 14271			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X																									
Brisbane Laboratory - NATA Site # 20794																							X	X	X				X	
Perth Laboratory - NATA Site # 23736																														
212	TP151 1.3-1.4	Aug 14, 2019							X																					
213	TP154 0.4-0.5	Aug 14, 2019							X																					
214	TP154 0.9-1.4	Aug 14, 2019							X																					
215	TP154 2.1-2.2	Aug 14, 2019							X																					
216	TP18 0.4-0.5	Aug 14, 2019							X																					
217	TP18 0.9-1.0	Aug 14, 2019							X																					
218	TP18 2.1-2.2	Aug 14, 2019							X																					
219	TP21 0.4-0.5	Aug 14, 2019							X																					
220	TP21 1.9-2.0	Aug 14, 2019							X																					
221	TP21 2.3-2.4	Aug 14, 2019							X																					
222	TP23 0.9-1.0	Aug 14, 2019							X																					
223	TP23 1.9-2.0	Aug 14, 2019							X																					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Sydney Laboratory - NATA Site # 18217							X	X																											
Brisbane Laboratory - NATA Site # 20794																									X	X	X								
Perth Laboratory - NATA Site # 23736																																			
224	TP23 3.9-4.0	Aug 14, 2019		Soil	S19-Au23703						X																								
225	TP24 0.05-0.15	Aug 14, 2019		Soil	S19-Au23704						X																								
226	TP24 0.4-0.5	Aug 14, 2019		Soil	S19-Au23705						X																								
227	TP24 2.4-2.5	Aug 14, 2019		Soil	S19-Au23706						X																								
228	TP24 4.1-4.2	Aug 14, 2019		Soil	S19-Au23707						X																								
229	TP28 0.9-1.0	Aug 14, 2019		Soil	S19-Au23708						X																								
230	TP28 1.9-2.0	Aug 14, 2019		Soil	S19-Au23709						X																								
231	BH32 0.9-1.0	Aug 14, 2019		Soil	S19-Au23710						X																								
232	BH32 1.9-2.0	Aug 14, 2019		Soil	S19-Au23711						X																								
233	TP35 0.4-0.5	Aug 14, 2019		Soil	S19-Au23712						X																								
234	TP35 0.9-1.0	Aug 14, 2019		Soil	S19-Au23713						X																								

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X																								
Brisbane Laboratory - NATA Site # 20794																									X	X	X			X		
Perth Laboratory - NATA Site # 23736																																
235	TP35 2.9-3.0	Aug 14, 2019		Soil	S19-Au23714						X																					
236	TP35 3.9-4.0	Aug 14, 2019		Soil	S19-Au23715						X																					
237	TP36 0.4-0.5	Aug 14, 2019		Soil	S19-Au23716						X																					
238	TP36 2.4-2.5	Aug 14, 2019		Soil	S19-Au23717						X																					
239	TP36 3.4-3.5	Aug 14, 2019		Soil	S19-Au23718						X																					
240	TP40 0.4-0.5	Aug 14, 2019		Soil	S19-Au23719						X																					
241	TP40 1.7-1.8	Aug 14, 2019		Soil	S19-Au23720						X																					
242	TP41 1.0-1.1	Aug 14, 2019		Soil	S19-Au23721						X																					
243	TP42 0.4-0.5	Aug 14, 2019		Soil	S19-Au23722						X																					
244	BH030_1.4-1.5	Aug 14, 2019		Soil	S19-Au25915						X																					
245	TP154 1.4-1.5	Aug 14, 2019		Soil	S19-Au25916						X																					
246	BLANK01-SW	Aug 14, 2019		Water	S19-Au25917																										X	

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 9:00 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671628	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail				Ammonia (as N)	Asbestos - W/A guidelines	Asbestos Absence /Presence	Conductivity (at 25°C)	E.coli	HOLD	Ion	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Thermotolerant Coliforms	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Volatle Organics	Moisture Set	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217					X	X																									
Brisbane Laboratory - NATA Site # 20794																								X	X	X					
Perth Laboratory - NATA Site # 23736																															
247	QC07	Aug 14, 2019	Soil				S19-Au25918										X				X										
Test Counts				5	38	4	5	2	115	1	5	5	1	1	5	2	99	29	23	5	110	2	45	115	115	1	45	2	13	7	

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1,2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Total PAH*	mg/L	< 0			0.00001	Pass	
Method Blank							
Ammonia (as N)							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	98			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
Xylenes - Total	%	108			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1,1-Dichloroethene	%	86			70-130	Pass	
1,1,1-Trichloroethane	%	96			70-130	Pass	
1,2-Dichlorobenzene	%	98			70-130	Pass	
1,2-Dichloroethane	%	96			70-130	Pass	
Trichloroethene	%	75			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	112			70-130	Pass	
TRH C6-C10	%	100			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	99			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Nitrate (as N)	%	101			70-130	Pass		
Nitrite (as N)	%	107			70-130	Pass		
LCS - % Recovery								
Alkalinity (speciated)								
Carbonate Alkalinity (as CaCO ₃)	%	91			70-130	Pass		
Total Alkalinity (as CaCO ₃)	%	96			70-130	Pass		
LCS - % Recovery								
Heavy Metals								
Arsenic	%	101			80-120	Pass		
Cadmium	%	111			80-120	Pass		
Chromium	%	108			80-120	Pass		
Copper	%	98			80-120	Pass		
Lead	%	112			80-120	Pass		
Mercury	%	112			75-125	Pass		
Nickel	%	109			80-120	Pass		
Zinc	%	102			80-120	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
				Result 1				
Ammonia (as N)	M19-Au21286	NCP	%	101		70-130	Pass	
Nitrate (as N)	M19-Au21286	NCP	%	98		70-130	Pass	
Nitrite (as N)	M19-Au21286	NCP	%	100		70-130	Pass	
Spike - % Recovery								
Alkalinity (speciated)								
				Result 1				
Bicarbonate Alkalinity (as CaCO ₃)	M19-Au19443	NCP	%	87		70-130	Pass	
Spike - % Recovery								
Alkalinity (speciated)								
				Result 1				
Carbonate Alkalinity (as CaCO ₃)	S19-Au23601	CP	%	79		70-130	Pass	
Total Alkalinity (as CaCO ₃)	S19-Au23601	CP	%	118		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions								
				Result 1				
TRH C6-C9	M19-Au19410	NCP	%	96		70-130	Pass	
Spike - % Recovery								
BTEX								
				Result 1				
Benzene	M19-Au19410	NCP	%	124		70-130	Pass	
Toluene	M19-Au19410	NCP	%	108		70-130	Pass	
Ethylbenzene	M19-Au19410	NCP	%	99		70-130	Pass	
m&p-Xylenes	M19-Au19410	NCP	%	100		70-130	Pass	
o-Xylene	M19-Au19410	NCP	%	121		70-130	Pass	
Xylenes - Total	M19-Au19410	NCP	%	107		70-130	Pass	
Spike - % Recovery								
Volatile Organics								
				Result 1				
1.1-Dichloroethene	M19-Au19410	NCP	%	118		70-130	Pass	
1.1.1-Trichloroethane	M19-Au19410	NCP	%	105		70-130	Pass	
1.2-Dichlorobenzene	M19-Au19410	NCP	%	120		70-130	Pass	
1.2-Dichloroethane	M19-Au19410	NCP	%	100		70-130	Pass	
Trichloroethene	M19-Au19410	NCP	%	111		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions								
				Result 1				
Naphthalene	M19-Au19410	NCP	%	98		70-130	Pass	
TRH C6-C10	M19-Au19410	NCP	%	100		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M19-Au21255	NCP	mg/L	44	45	<1	30%	Pass	
Nitrate (as N)	M19-Au21255	NCP	mg/L	< 0.4	< 0.4	<1	30%	Pass	
Nitrite (as N)	M19-Au21255	NCP	mg/L	< 0.4	< 0.4	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S19-Au23598	CP	uS/cm	190	200	6.0	30%	Pass	
pH (at 25°C)	S19-Au23598	CP	pH Units	3.6	3.6	pass	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO ₃)	S19-Au23598	CP	mg/L	< 20	< 20	<1	30%	Pass	
Carbonate Alkalinity (as CaCO ₃)	S19-Au23598	CP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO ₃)	S19-Au23598	CP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO ₃)	S19-Au23598	CP	mg/L	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S19-Au23602	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S19-Au23602	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S19-Au23602	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Propanone (Acetone)	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Chlorotoluene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Allyl chloride	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromochloromethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	S19-Au23602	CP	mg/L	0.001	0.002	2.0	30%	Pass	
Bromomethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Carbon disulfide	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	S19-Au23602	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.2-Dichloroethene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Methylene Chloride	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S19-Au23602	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au23602	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	S19-Au23602	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au23603	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S19-Au23603	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total	S19-Au23603	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1-Dichloroethene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1-Trichloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2-Trichloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dibromoethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichlorobenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloropropane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.3-Trichloropropane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.4-Trimethylbenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichlorobenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichloropropane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3.5-Trimethylbenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.4-Dichlorobenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
2-Butanone (MEK)	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Propanone (Acetone)	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Chlorotoluene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Allyl chloride	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	S19-Au23603	CP	mg/L	0.001	0.002	14	30%	Pass
Bromomethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	S19-Au23603	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1,2-Dichloroethene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1,3-Dichloropropene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Methylene Chloride	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,2-Dichloroethene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1,3-Dichloropropene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S19-Au23603	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au23603	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	S19-Au23603	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au23605	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S19-Au23605	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total	S19-Au23605	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1,1-Dichloroethene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1,1,1-Trichloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1,1,2-Trichloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1,1,2,2-Tetrachloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2-Dibromoethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichlorobenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloropropane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.3-Trichloropropane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.4-Trimethylbenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichlorobenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichloropropane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3.5-Trimethylbenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.4-Dichlorobenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Butanone (MEK)	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Propanone (Acetone)	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Chlorotoluene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Allyl chloride	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromomethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	S19-Au23605	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.2-Dichloroethene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Methylene Chloride	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Styrene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	S19-Au23605	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au23605	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	S19-Au23605	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)



Glenn Jackson General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY

PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:						pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	IDENTIFICATION								NEPM/WA			
TP110-0.0-0.1 0.4-0.5	Soil	15.8.19		J+B J			x	x	x							
TP121-0.0-0.1 0.2-0.3 0.4-0.5				J+B J J			x	x		x	x					
BHP18-0.0-0.1 0.2-0.3 0.4-0.5				J+B J+B J			x	x	x		x					
TP57-0.0-0.1 0.2-0.3 0.4-0.5				J+B J J			x	x	x		x					
TP76-0.0-0.1 0.2-0.3 0.4-0.5				J+B J+B J			x	x								
TP88-0.0-0.1 0.2-0.3 0.4-0.5				J+B J+B J			x	x			x					
TP72 FRAGOI	FRAG.			B						x						

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME: <i>WONG</i>	DATE: <i>2/18</i>	COOLER SEAL - Yes..... No	Intact Broken
OF: JBS&G		TRANSPORT CO.				COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No	Intact Broken
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms013 - Chain of Custody - Generic

671915

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPS	TYPE OF ASBESTOS ANALYSIS		NOTES:
												IDENTIFICATION	NEPM/WA	
TP158-0.9-1.0	Soil	15.8.19		J		X	X	X		X	X			
TP158-1.5-1.9				J										
TP72-0-0.1				J+B							X			
0.4-0.5				J		X	X	X						
TP84-0.0-0.1				J+B		X	X							
0.4-0.5				J+B										
TP159-0.0-0.1				J+B		X	X	X	X					
0.4-0.5				J										
TP45-0.0-0.1				J+B		X	X							
0.4-0.5				J										
TP83-0.0-0.1				J+B		X	X	X	X	X	X			
0.4-0.5				J										
0.9-1.0				J										
TP160-0.0-0.1				J+B										
0.4-0.5				J		X	X		X	X				
TP73-0.0-0.1				J+B		X	X							
0.4-0.5				J		X	X							
TP106-0.0-0.1				J+B		X	X			X				
0.2-0.3	✓	✓		J		X	X			X				

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		DATE:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2)rill.....@jbsg.com.au; (3)mswinfield.....@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:						Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPS											TYPE OF ASBESTOS ANALYSIS		NOTES:
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH																	IDENTIFICATION	NEPM/WA	
TP107-0.0-0.1	Soil	15.8.19		J+B		x	x				x													
0.2-0.3				J																				
0.4-0.5				J																				
TP161-0.0-0.1				J+B		x	x	x	x	x														
0.2-0.3				J+B																				
0.4-0.5				J		x	x			x														
TP166-0.0-0.1				J+B		x	x																	
0.2-0.3				J+B																				
0.4-0.5				J																				
TP74-0.0-0.1				J+B		x	x	x		x	x													
0.2-0.3				J+B																				
0.4-0.5				J																				
TP85-0.0-0.1				J+B		x	x	x	x															
0.2-0.3				J																				
0.4-0.5				J																				
TP75-0.0-0.1				J+B		x	x			x	x													
0.2-0.3				J																				
0.4-0.5	V	V		J																				

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:		COOLER SEAL - Yes..... No	Intact Broken
OF: JBS&G		TRANSPORT CO.		DATE:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No	Intact Broken
OF:		TRANSPORT CO		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO FormsO13 - Chain of Custody - Generic



CHAIN OF CUSTODY

PROJECT NO.: 56387					LABORATORY BATCH NO.:									
PROJECT NAME: Central Coast DSI					SAMPLERS:									
DATE NEEDED BY: Standard TAT					QC LEVEL: NEPM (2013)									
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688														
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au														
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:														
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPS	TYPE OF ASBESTOS ANALYSIS		NOTES:
												IDENTIFICATION	NEPM/WA	
TP127-0.2-0.3	Soil	15.8.14		J		X	X	X			X			
0.4-0.5				J										
TP273-0.0-0.1				J+B		X	X	X	X	X	X			
0.4-0.5				J		X	X							
0.5-0.9				J										
TP155-0.0-0.05				J+B		X	X	X	X	X				
0.05-0.15				J+B		X	X							
0.6-0.7				J										
TP282-0.0-0.1				J+B		X	X	X		X				
0.4-0.5				J+B										
1.2-1.3				J		X	X							
1.6-1.7				J										
TP162-0.0-0.1				J+B				X						
0.2-0.3				J+B		X	X	X	X					
0.4-0.5				J										
TP158-0.0-0.1				J+B				X	X	X				
0.4-0.5				J+B										
0.9-1.0	✓	✓		J+B										
RELINQUISHED BY:					METHOD OF SHIPMENT:					RECEIVED BY:			FOR RECEIVING LAB USE ONLY:	
NAME: Ryan		DATE:			CONSIGNMENT NOTE NO.					NAME:			COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G					TRANSPORT CO.					DATE:			COOLER TEMP deg C	
NAME:		DATE:			CONSIGNMENT NOTE NO.					NAME:			COOLER SEAL - Yes..... No Intact Broken	
OF:					TRANSPORT CO					DATE:			COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms O13 - Chain of Custody - Generic



CHAIN OF CUSTODY

PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2) rill@jbsg.com.au; (3) mswinfield@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
												IDENTIFICATION	NEPM/MA		
TP157-0.0-0.1	Soil	15.8.19		J+B		x	x		x						
0.4-0.5				J											
0.9-1.0				J											
TP194-0.0-0.1				J+B		x	x	x	x	x	x				
0.4-0.5				J		x	x								
0.9-1.0				J											
TP156-0.0-0.1				J+B		x	x	x	x	x	x				
0.4-0.5				J		x	x								
0.9-1.0				J											
TP105-0.0-0.1				J+B		x	x	x	x	x	x				
0.4-0.5				J		x	x								
0.9-1.0				J											
TP104-0.0-0.1				J+B		x	x	x	x	x	x				
0.2-0.3				J		x	x								
0.9-1.0				J											
TP116-0.4-0.5-0.0-0.1				J+B		x	x	x		x	x				
0.4-0.5				J											
0.9-1.0				J											
TP127-0.0-0.1				J+B		x	x	x			x				

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		DATE:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms013 - Chain of Custody - Generic



CHAIN OF CUSTODY

PROJECT NO.: 56387						LABORATORY BATCH NO.:									
PROJECT NAME: Central Coast DSI						SAMPLERS:									
DATE NEEDED BY: Standard TAT						QC LEVEL: NEPM (2013)									
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688															
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au															
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:															
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCs	TYPE OF ASBESTOS ANALYSIS		NOTES:	
												IDENTIFICATION	NEPM/WA		
TP106-0.4-0.5	Soil	15/8/11		J+B		x	x								
0.4-1.0				J											
TP117-0.0-0.1				J+B		x	x	x	x		x				
0.2-0.3				J+B											
0.4-0.5				J											
TP126-0.0-0.1				J+B						x	x				
0.2-0.3				J		x	x								
0.4-0.5				J											
TP128-0.0-0.1				J+B		x	x	x			x				
0.2-0.3				J											
0.4-0.5				J											
0.9-1.0				J											
TP129-0.0-0.1				J+B		x	x	x			x				
0.2-0.3				J+B											
0.4-0.5				J											
TP118-0.0-0.1				J+B											
0.2-0.3				J		x	x	x							
0.4-0.5				J											

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		DATE:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms O13 - Chain of Custody - Generic



CHAIN OF CUSTODY

PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)mswinfield@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCFs	M	TYPE OF ASBESTOS ANALYSIS		NOTES:	
													IDENTIFICATION	NEPM/NWA		
BH6+ - 0.5-0.6	Soil	15.8.19		J												*impH, CEC, Fe
BH6S - 0.0-0.1				J+B												
0.4-0.5				J		x	x									
BH69 - 0.0-0.1				J+B		x	x		x	x						
0.3-0.4				J												
BH56 - 0.0-0.1				J+B		x	x	x	x	x						
0.3-0.4				J												
BH57 - 0.0-0.1				J+B												
BH57 - 0.4-0.5				J		x	x									
BH58 - 0.0-0.1				J+B		x	x		x	x						
0.3-0.4				J												
BH78 - 0.0-0.1				J+B		x	x	x		x						
0.3-0.4				J												
TP152 - 0.0-0.1				J+B		x	x		x	x						
0.2-0.3				J												
0.5-0.6				J												
TP99 - 0.0-0.1				J+B				x	x	x						
0.2-0.3				J+B		x	x									
0.4-0.5				J												

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:		COOLER SEAL - Yes..... No	Intact
OF: JBS&G		TRANSPORT CO.		DATE:		COOLER TEMP	deg C
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No	Intact
OF:		TRANSPORT CO.		OF:		COOLER TEMP	deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other



CHAIN OF CUSTODY

PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPS	BTEX	TYPE OF ASBESTOS ANALYSIS		NOTES:	
													IDENTIFICATION	NEPM/MA		
TP111-0.0-0.1	Soil	16.8.17		J+B		+	+									
0.2-0.3				J+B												
0.4-0.5				J												
0.9-1.0				J												
TP122-0.0-0.1				J+B		+	+	+								
0.2-0.3				J+B												
0.4-0.5				J												
TP079-0.0-0.1				J+B		+	+									
0.2-0.3				J+B												
0.4-0.5				J												
TP125-0.0-0.1				J+B		+	+	+								
0.4-0.5				J												
TP124-0.0-0.1				J+B		+	+									
0.4-0.5				J												
TP119-0.0-0.1				J+B		+	+	+								
0.2-0.3				J												
0.4-0.5				J												
RANOS TS/TB	W/TEK ↓			1xM 1xP 2xV 4x Vials		+	+	+		+	+					

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:		COOLER SEAL - Yes..... No	Intact
OF: JBS&G		TRANSPORT CO.		DATE:		COOLER TEMP	deg C
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No	Intact
OF:		TRANSPORT CO.		OF:		COOLER TEMP	deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMS0 Forms013 - Chain of Custody - Generic



CHAIN OF CUSTODY

PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Central Coast DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	Asbestos	PCBs	OCPs	VFA S	Cyt. Alkalinity	Nitrate Nitrite	Ammonia	TYPE OF ASBESTOS ANALYSIS		NOTES:	
																IDENTIFICATION	NEPM/MA		
BH113-0.0-0.1 0.3-0.4	Soil	16/8/17		B					X										
BH41-0.0-0.1 0.4-0.5				J+B		X	X	X											
BH102-0.0-0.1 0.3-0.4				J+B		X	X			X									
BH114-0.0-0.1 0.5-0.6				J+B		X	X												
BH115-0.0-0.1 0.3-0.4				J+B		X	X	X		X									
BH51-0.0-0.1 0.4-0.5				J+B		X	X												
BH103-0.0-0.1 0.4-0.5				J+B		X	X												
BH92-0.0-0.1 0.4-0.5				J+B		X	X	X											
SN05	WATER			2x V, 1x H, 1x M, 1x Inorg, 1x PFA		X	X	X			X	X	X	X					

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms O13 - Chain of Custody - Generic

017018

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.:
PROJECT NAME: <u>Central Coast DSI</u>	SAMPLERS: <u>KL</u>
DATE NEEDED BY: <u>STAT</u>	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	ANALYSIS						IDENTIFICATION	NEPM/NA	NOTES:
						Heavy Metals	PHYS	THOC	Asbestos	PCBs	OCs			
BH59-0.0-0.1	Soil	15.8.19		J+B		X	X	X	X	X	X			
0.3-0.4				J										
BH71-0.0-0.1				J+B		X	X			X				
0.4-0.5				J										
0.9-1.0				J										
BH13-0.0-0.1				J+B		X	X	X		X	X			
0.8-0.4				J										
BH57-0.0-0.1				J+B		X	X	X						
0.4-0.5				J										
BH77-0.0-0.1				J+B		X	X	X	X	X				
0.4-0.5				J										
BH80-0.0-0.1				J+B		X	X			X				
0.4-0.5				J										
BH85-0.0-0.1				J+B		X	X	X						
0.4-0.5				J										
BH66-0.0-0.1				J+B										
0.3-0.4				J										
BH67-0.0-0.1				J+B		X	X			X				
0.3-0.4	V	V		J										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: <u>16.8.19</u> DATE: <u>Ryan</u>	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL - Yes..... No..... Intact..... Broken.....
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP..... deg C
NAME:	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL - Yes..... No..... Intact..... Broken.....
DATE:	TRANSPORT CO.	DATE:	COOLER TEMP..... deg C
OF:		OF:	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsrd.; C = Sodium Hydroxide Prsrd.; VC = Hydrochloric Acid Prsrd Vial; VS = Sulfuric Acid Prsrd Vial; S = Sulfuric Acid Prsrd; Z = Zinc Prsrd; E = EDTA Prsrd; ST = Sterile Bottle; O = Other
 IMISO Forms013 - Chain of Custody - Generic

117018

CHAIN OF CUSTODY



PROJECT NO.: 56387
 PROJECT NAME: Central Coast DSI
 DATE NEEDED BY: 5/1/19
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	ANALYSIS					IDENTIFICATION	NEPM/NA	NOTES
						Asbestos	PCBs	OCs	PAHs	PHOC			
TP110-0.0-0.1	Soil	15.8.19		J+B		X	X	X	X				
0.4-0.5				J									
TP121-0.0-0.1				J+B									
0.2-0.3				J+B		X	X						
0.4-0.5				J									
BH98-0.0-0.1				J+B		X	X	X					
0.2-0.3				J+B									
0.4-0.5				J									
TP87-0.0-0.1				J+B		X	X	X					
0.2-0.3				J									
0.4-0.5				J									
TP76-0.0-0.1				J+B		X	X						
0.2-0.3				J+B									
0.4-0.5				J									
TP88-0.0-0.1				J+B		X	X						
0.2-0.3				J+B		X	X						
0.4-0.5				J									
TP72-FRAG.01	FRAG			J									

RELINQUISHED BY: NAME: Ryan DATE: 16.8.19
 METHOD OF SHIPMENT:
 CONSIGNMENT NOTE NO.
 TRANSPORT CO.
 RECEIVED BY: NAME: DATE: FOR RECEIVING LAB USE ONLY:
 COLDER SEAL: Yes..... No..... Intact..... Broken.....
 COLDER TEMP: deg C
 COLDER SEAL: Yes..... No..... Intact..... Broken.....
 COLDER TEMP: deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Presvd.; C = Sodium Hydroxide Presvd; VC = Hydrochloric Acid Presvd Vial; VS = Sulfuric Acid Presvd Vial; S = Sulfuric Acid Presvd; Z = Zinc Presvd; E = EDTA Presvd; ST = Sterile Bottle; O = Other

06282

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Royalston Central Coast DS	SAMPLERS: 115 RL
DATE NEEDED BY: ST TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) RL...@jbsg.com.au; (3) R.S.W...@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS					NOTES:
						Hexavalent	TRH/OC	PCBS	PCBS	COB	
TP136	Soil	16/8/19		J							
TP123				J+B		X	+			X	
				J							
				J							
				J							
TP112				J+B		K	+	X			
				J							
				J							
TP101				J+B		K	X				
				J+B							
				J							
TP090				J+B		K	X	K	X	K	X
				J							
				J							
TP089				J+B		K	+				
				J							
TP100				J+B		K	+	K		X	K
				J							
				J							

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: CB	DATE: 16/8/19	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

06280

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.:
PROJECT NAME: <u>DETAILED Central Coast DS</u>	SAMPLERS: <u>RL + MS</u>
DATE NEEDED BY: <u>5/1/19</u>	QC LEVEL: NEPM (2013)
PHONE Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <u>M.Swinfield</u> @jbsg.com.au; (3) <u>Cliff</u> @jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS						NOTES:		
						Identification	NEPM/WA	Asbestos	Trace Metals	PAHs	TCDD/OC		PCBs	PCPs
BH109 0-0.1	SOIL	15/8/19		J+B		x	x							
↓ 0.2-0.3				J										
↓ 0.4-0.5				J										
TP131 0.1-0.2				J+B										
↓ 0.2-0.3				J+B		x	x	x		x	x			
↓ 0.4-0.5				J										
↓ 0.9-1.0				J										
TP120 0-0.1				J+B										
↓ 0.2-0.3				J		x	x							
↓ 0.4-0.5				J										
TP130 0-0.1				J+B										
↓ 0.2-0.3				J+B										
↓ 0.4-0.5				J		x	x	x						
↓ 0.9-1.0				J										
TP108 0-0.1				J+B		x	x	x						
↓ 0.2-0.3				J										
↓ 0.4-0.5				J										
TP097 0-0.1				J+B										
↓ 0.2-0.3				J+B		x	x							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: <u>CB</u> DATE: <u>16/8/19</u>	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL - Yes..... No Intact Broken
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP deg C
NAME:	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL - Yes..... No Intact Broken
OF:	TRANSPORT CO.	DATE:	COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 1MSO Forms013 - Chain of Custody - Generic

06281

CHAIN OF CUSTODY



PROJECT NO.: 56387	LABORATORY BATCH NO.:
PROJECT NAME: Royalton Central Coast DSI	SAMPLERS: RLMS
DATE NEEDED BY: st TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Bill.....@jbsg.com.au; (3) rawwinfield.....@jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Pb	Cd	Ni	VC	VS	S	Z	E	ST	O	NOTES:	TYPE OF ASBESTOS ANALYSIS	
																		IDENTIFICATION	REP/VA
TP097	Soil	15/8/19		J+B		x	x												
				0.9-1.0															
				1.3-1.4															
TP086				0-0.1		x	x												
				0.2-0.3															
				0.4-0.5															
TP133		16/8/19		0-0.1		x	x												
				0.2-0.3															
				0.4-0.5															
BH164				0-0.1		x	x	x	x										
				0.2-0.3															
BH165				0-0.1		x	x	x	x	x									
				0.2-0.3															
BH163				0-0.1		x	x	x	x	x									
				0.2-0.3															
TP134				0-0.1		x	x												
				0.4-0.5															
TP136				0-0.1		x	x												
				0.2-0.3															

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: CB	DATE: 16/8/19	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMSO Forms 013 - Chain of Custody - Generic

06280

CHAIN OF CUSTODY



PROJECT NO.: <u>56387</u>	LABORATORY BATCH NO.:
PROJECT NAME: <u>DETAILED Central Coast DS</u>	SAMPLERS: <u>RL + MS</u>
DATE NEEDED BY: <u>ST TAT</u>	QC LEVEL: <u>NEPM (2013)</u>
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <u>M. Winfield</u> @jbsg.com.au; (3) <u>L. Hill</u> @jbsg.com.au	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS						NOTES:		
						Asbestos	Amph	TRP/OC	EDTA/MS	VC/S	OC/S		IDENTIFICATION	NEPM/MSA
BM109 0-0.1	Soil	15/8/19		J+B		x	x							
↓ 0.2-0.3				J										
↓ 0.4-0.5				J										
TP131 0.1-0.2				J+B		x	x	x	x	x				
↓ 0.2-0.3				J+B		x	x	x	x	x				
↓ 0.4-0.5				J										
↓ 0.9-1.0				J										
TP120 0-0.1				J+B		x	x							
↓ 0.2-0.3				J										
↓ 0.4-0.5				J										
TP130 0-0.1				J+B										
↓ 0.2-0.3				J+B										
↓ 0.4-0.5				J		x	x	x						
↓ 0.9-1.0				J										
TP108 0-0.1				J+B		x	x	x						
↓ 0.2-0.3				J										
↓ 0.4-0.5				J										
TP097 0-0.1				J+B										
↓ 0.2-0.3				J+B		x	x							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: <u>CB</u> DATE: <u>16/8/19</u>	CONSIGNMENT NOTE NO.	NAME: _____ DATE: _____	COOLER SEAL - Yes..... No Intact Broken
OF: JBS&G	TRANSPORT CO.	OF: _____	COOLER TEMP deg C
NAME: _____ DATE: _____	CONSIGNMENT NOTE NO.	NAME: _____ DATE: _____	COOLER SEAL - Yes..... No Intact Broken
OF: _____	TRANSPORT CO.	OF: _____	COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

06282

CHAIN OF CUSTODY



PROJECT NO.: 56387					LABORATORY BATCH NO.:								
PROJECT NAME: Royalson Central Coast DS					SAMPLERS: M5 RL								
DATE NEEDED BY: 5+ TAT					QC LEVEL: NEPM (2013)								
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688													
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) R.Lill@jbsg.com.au; (3) M.Swinfield@jbsg.com.au													
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:													
							TYPE OF ASBESTOS ANALYSIS IDENTIFICATION NEPM/NA		NOTES:				
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Her	1/4/16	TRH/LOC	1/1/16	1/1/16	1/1/16	1/1/16	1/1/16
TP136	Soil	16/8/19		J									
TP123				J+B		X	+					X	
				J									
				J									
				J									
TP112				J+B		X	+	X					
				J									
				J									
TP101				J+B		X	+						
				J+B									
				J									
TP090				J+B		X	+	X			X	X	
				J									
				J									
TP089				J+B		X	+						
				J									
TP100				J+B		X	+	X			X	X	
				J									
				J									

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: UB	DATE: 16/8/19	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

06281

CHAIN OF CUSTODY



PROJECT NO.: 56387						LABORATORY BATCH NO.:										
PROJECT NAME: <i>2091502 Central Coast DSI</i>						SAMPLERS: <i>RLMS</i>										
DATE NEEDED BY: <i>st JAT</i>						QC LEVEL: NEPM (2013)										
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688																
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <i>Bill</i>@jbsg.com.au; (3) <i>Mawitch</i>@jbsg.com.au																
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">TYPE OF ASBESTOS ANALYSIS</td> <td rowspan="2">NOTES:</td> </tr> <tr> <td>IDENTIFICATION</td> <td>NEPM/JWA</td> </tr> </table>						TYPE OF ASBESTOS ANALYSIS		NOTES:	IDENTIFICATION	NEPM/JWA
TYPE OF ASBESTOS ANALYSIS		NOTES:														
IDENTIFICATION	NEPM/JWA															
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	<i>HH</i>	<i>HH</i>	<i>HH</i>	<i>HH</i>	<i>HH</i>	<i>HH</i>					
<i>TP097</i>	<i>0.4-0.5</i>	<i>Soil</i>	<i>15/8/19</i>	<i>J+B</i>		<i>X</i>	<i>X</i>		<i>X</i>	<i>X</i>						
<i>↓</i>	<i>0.9-1.0</i>			<i>J+B</i>												
<i>↓</i>	<i>1.3-1.4</i>			<i>J</i>												
<i>TP086</i>	<i>0-0.1</i>			<i>J+B</i>		<i>X</i>	<i>X</i>									
<i>↓</i>	<i>0.2-0.3</i>			<i>J+B</i>		<i>X</i>	<i>X</i>									
<i>↓</i>	<i>0.4-0.5</i>			<i>J</i>												
<i>TP133</i>	<i>0-0.1</i>		<i>16/8/19</i>	<i>J+B</i>			<i>X</i>			<i>X</i>						
<i>↓</i>	<i>0.2-0.3</i>			<i>J</i>												
<i>↓</i>	<i>0.4-0.5</i>			<i>J</i>												
<i>BH164</i>	<i>0-0.1</i>			<i>J+B</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
<i>↓</i>	<i>0.2-0.3</i>			<i>J</i>												
<i>BH165</i>	<i>0-0.1</i>			<i>J+B</i>												
<i>↓</i>	<i>0.2-0.3</i>			<i>J+B</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
<i>BH163</i>	<i>0-0.1</i>			<i>J+B</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
<i>↓</i>	<i>0.2-0.3</i>			<i>J</i>												
<i>TP134</i>	<i>0-0.1</i>			<i>J+B</i>		<i>X</i>	<i>X</i>									
<i>↓</i>	<i>0.4-0.5</i>			<i>J</i>												
<i>TP136</i>	<i>0-0.1</i>			<i>J+B</i>		<i>X</i>	<i>X</i>									
<i>↓</i>	<i>0.2-0.3</i>	<i>✓</i>	<i>✓</i>	<i>S</i>												

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <i>CB</i>	DATE: <i>16/8/19</i>	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMS0 FormsQ13 - Chain of Custody - Generic

06284

CHAIN OF CUSTODY



PROJECT NO.: <u>50387</u>					LABORATORY BATCH NO.:				
PROJECT NAME: <u>Raymond Central Coast DC</u>					SAMPLERS: <u>MS-RL</u>				
DATE NEEDED BY: <u>ST JAY</u>					QC LEVEL: NEPM (2013)				
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688									
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) <u>RLC</u>@jbsg.com.au; (3) <u>MSW:INFIELD</u>@jbsg.com.au									
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:									
							TYPE OF ASBESTOS ANALYSIS IDENTIFICATION NEPM/NA		NOTES:
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH				
BH113 0-0.1	Soil	16/8/19		J+B					
0.3-0.4				J					
BH91 0-0.1				J+B					
0.4-0.5				J					
BH102 0-0.1				J+B					
0.3-0.4				J					
BH114 0-0.1				J+B					
0.5-0.6				J					
BH113 0-0.1				J+B					
0.3-0.4				J					
BH81 0-0.1				J+B					
0.4-0.5				J					
BH103 0-0.1				J+B					
0.4-0.5				J					
BH92 0-0.1				J+B					
0.4-0.5				J					

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <u>ob</u>	DATE: <u>16/8/19</u>	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF: JBS&G		TRANSPORT CO.		OF:		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME: <u>J</u>	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY



PROJECT NO.: 56387
PROJECT NAME: Central Coast DSI
DATE RECEIVED BY: SJAT
LABORATORY BATCH NO.:
SAMPLERS: RL
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
WE LEVEL: NEPM (2013)
SEND REPORT & INVOICE TO: (1) admin@jbsg.com.au; (2) [redacted]; (3) [redacted]

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Analytical Methods						ASBESTOS	OTHER TESTS	REMARKS	
						PH	TRITEX	TRITEX	TRITEX	TRITEX	TRITEX				
BH67-0.5-0.6	Soil	15.8.19		J											
BH68-0.0-0.1				J+B											
BH69-0.0-0.1				J		x	x								
BH70-0.0-0.1				J+B		x	x								
BH71-0.0-0.1				J		x	x								
BH72-0.0-0.1				J+B		x	x								
BH73-0.0-0.1				J		x	x								
BH74-0.0-0.1				J+B		x	x								
BH75-0.0-0.1				J		x	x								
BH76-0.0-0.1				J+B		x	x								
BH77-0.0-0.1				J		x	x								
BH78-0.0-0.1				J+B		x	x								
TP132-0.0-0.1				J		x	x								
TP132-0.2-0.3				J+B		x	x								
TP132-0.5-0.6				J		x	x								
TP132-0.2-0.3				J+B		x	x								
TP132-0.5-0.6				J		x	x								
TP132-0.2-0.3				J+B		x	x								
TP132-0.5-0.6				J		x	x								

RECEIVED BY: NAME: Ryan DATE: 16.8.19	METHOD OF STORAGE: CONSIGNMENT NOTE NO.:	RECEIVED BY: NAME: DATE:	FOR RECEIVING LAB USE ONLY: COOLER SEAL = Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> COOLER TEMP = Deg C COOLER SEAL = Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> COOLER TEMP = Deg C
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Preparation & Preservation of Samples for Analysis: Soil - 0.5g (0.1g) in 100ml 0.1M HCl, and 0.5g (0.1g) in 100ml 0.1M HCl. Acid Based Vials - 0.5g (0.1g) in 100ml 0.1M HCl. Acid Based Vials - 0.5g (0.1g) in 100ml 0.1M HCl. Acid Based Vials - 0.5g (0.1g) in 100ml 0.1M HCl. Acid Based Vials - 0.5g (0.1g) in 100ml 0.1M HCl.

017018

CHAIN OF CUSTODY



PROJECT NO.: 56287
 PROJECT NAME: Central Coast USI
 DATE NEEDED BY: 5/11
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3) m.s.m.i.n.i.r.d.l.d.@jbsg.com.au
 COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	ASBESTOS ANALYSIS						NOTES	
						Heavy Metals	PAHs	TRINOC	Fibres	PCBs	OCs		IDENTIFICATION
TP116-0-4-0.5 ↓ -0-1-1.0	Soil	15		J+R	1.2	x	x						
TP117-0-0-0.1 0-2-0.1 0-4-0.5				J+B		x	x	x	x				
TP126-0-0-0.1 0-2-0.1 0-4-0.5				J+B		x	x			x			
TP128-0-0-0.1 0-2-0.3 0-4-0.5 0-9-1.0				J+R		x	x			x			
TP129-0-0-0.1 0-2-0.3 0-4-0.5				J+B		x	x			x			
TP111-0-0-0.1 0-2-0.3 0-4-0.5				J		x	x	x					
TP107-0-0-0.1				J+R		x	x	x					

RELINQUISHED BY: NAME: <u>[Signature]</u> OF: JBS&G DATE: <u>15.8.19</u>	METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO. CONSIGNMENT NOTE NO. TRANSPORT CO.	RECEIVED BY: NAME: DATE: NAME: DATE:	FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes..... No Intact Broken..... COOLER TEMP deg C COOLER SEAL - Yes..... No Intact Broken..... COOLER TEMP deg C
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IMSO Forms 013 - Chain of Custody - Generic
 Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

017018

CHAIN OF CUSTODY



PROJECT NO.: 56387 LABORATORY BATCH NO.:
 PROJECT NAME: Central Coast TSI SAMPLERS: M. Swin
 DATE NEEDED BY: STAT QC LEVEL: NEPM (2013)
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3)@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS					NOTES:	
						IDENTIFICATION	NEPM/NA	Asbestos	PCBs	OCs		
TP157-0.0-0.1	Soil	15.8		J + B + Ice								
↓				J + Ice								
TP144-0.0-0.1				J + B + Ice								
↓				J + Ice								
TP156-0.0-0.1				J + B + Ice								
↓				J + B + Ice								
TP105-0.0-0.1				J + B + Ice								
↓				J + Ice								
TP104-0.0-0.1				J + B + Ice								
↓				J + Ice								
TP116-0.0-0.1				J + B + Ice								
↓				J + Ice								
TP127-0.0-0.1				J + B + Ice								

RELIQUISHED BY: NAME: <u>[Signature]</u> DATE: <u>15.8.19</u> OF: <u>JBS&G</u>	METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO.	RECEIVED BY: NAME: DATE: OF:	FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes..... No..... Intact..... Broken..... COOLER TEMP deg C COOLER SEAL - Yes..... No..... Intact..... Broken..... COOLER TEMP deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL - Yes..... No..... Intact..... Broken..... COOLER TEMP deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other
 IMISO Forms013 - Chain of Custody - Generic



CHAIN OF CUSTODY

PROJECT NO: DA 56387 PROJECT NAME: Central Coast DSI DATE RECEIVED BY: STAT PHONE: Sydney: 02 8245 0300 Perth: 08 9408 9100 Brisbane: 07 3112 2600 SEND REPORT & INVOICE TO: (1) adminsw@jbs.com.au (2) rls@jbs.com.au	LABORATORY BATCH NO: SAMPLERS: M-S QC LEVEL: NEPM (2013)
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SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	PH	ANALYSIS					IDENTIFICATION	REMARKS
						H-metals	PAHs	TH/VOC	ASBESTOS	PCBS		
TP107-0-0.1	Soil	15-8		J+B		✓	✓	✓	✓	✓		
0.2-0.3				J								
0.4-0.5				J								
TP161-0-0.1				J+B		✓	✓	✓	✓	✓		
0.2-0.3				J+B								
0.4-0.5	J			J								
TP096-0-0.1				J+B		✓	✓	✓	✓	✓		
0.2-0.3				J+B								
0.4-0.5	J			J								
TP085-0-0.1				J+B		✓	✓	✓	✓	✓		
0.2-0.3				J								
0.4-0.5	J			J								
TP074-0-0.1				J+B		✓	✓	✓	✓	✓		
0.2-0.3				J								
0.4-0.5	J			J								
TP075-0-0.1				J+B		✓	✓	✓	✓	✓		
0.2-0.3				J								
0.4-0.5	J			J								
TP086-0-0.1				J+B		✓	✓	✓	✓	✓		
0.2-0.3				J								
0.4-0.5	J			J								

RECEIVED BY: [Signature] NAME: [Signature] DATE: 15-8-19	METHOD OF SHIPMENT: CONSIGNMENT NOTE NO.: TRANSPORTED: CONSIGNMENT NOTE NO.: TRANSPORTED:	RECEIVED BY: NAME: [Signature] DATE: 15-8-19	FOR RECEIVING LAB USE ONLY: COOLER SEAL = Yes No Intact Broken COOLER TEMP = deg C COOLER SEAL = Yes No Intact Broken COOLER TEMP = deg C
---	---	--	---

Hydrochloric Acid Preservative: 10% v/v
 Nitric Acid Preservative: 10% v/v
 Hydrofluoric Acid Preservative: 10% v/v
 Boric Acid Preservative: 10% w/v
 Hydrochloric Acid Preservative: 10% v/v
 Nitric Acid Preservative: 10% v/v
 Hydrofluoric Acid Preservative: 10% v/v
 Boric Acid Preservative: 10% w/v

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Aug 16, 2019 6:10 PM
Eurofins reference: **671915**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 10.3 degrees Celsius.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.

Notes N/A Custody Seals intact (if used).

Samples BH71, BH98 and BH109 received with prefix "TP", logged as per COC. Samples TP107_0.0-0.1, TP086_0.0-0.1, TP158_0.9-1.0, listed twice in the COC. .

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlill@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 16, 2019 6:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671915	Due:	Aug 23, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
10	BH59_0.0-0.1	Aug 15, 2019		Soil	S19-Au25381		X												X				X	X	X	X	X	X			
11	BH71_0.0-0.1	Aug 15, 2019		Soil	S19-Au25382							X							X	X			X		X	X	X	X			
12	BH13_0.0-0.1	Aug 15, 2019		Soil	S19-Au25383														X				X	X	X	X	X	X			
13	BH37_0.0-0.1	Aug 15, 2019		Soil	S19-Au25384														X				X		X	X	X	X			
14	BH77_0.0-0.1	Aug 15, 2019		Soil	S19-Au25385		X												X				X	X	X	X	X	X			
15	BH80_0.0-0.1	Aug 15, 2019		Soil	S19-Au25386														X	X			X			X					
16	BH65_0.0-0.1	Aug 15, 2019		Soil	S19-Au25387														X				X			X					
17	BH66_0.3-0.4	Aug 15, 2019		Soil	S19-Au25388														X				X			X					
18	BH67_0.0-0.1	Aug 15, 2019		Soil	S19-Au25389														X	X			X			X					
19	TP158_0.9-1.0	Aug 15, 2019		Soil	S19-Au25390														X				X	X	X	X	X	X			
20	TP072_0.0-0.1	Aug 15, 2019		Soil	S19-Au25391															X						X					
21	TP072_0.4-0.5	Aug 15, 2019		Soil	S19-Au25392														X				X		X	X	X	X			

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
34	TP096_0.0-0.1	Aug 15, 2019		Soil	S19-Au25405														X												
35	TP085_0.0-0.1	Aug 15, 2019		Soil	S19-Au25406		X												X							X	X		X		
36	TP074_0.0-0.1	Aug 15, 2019		Soil	S19-Au25407														X					X	X	X		X			
37	TP075_0.2-0.3	Aug 15, 2019		Soil	S19-Au25408														X					X		X		X			
38	TP127_0.2-0.3	Aug 15, 2019		Soil	S19-Au25410														X	X					X	X		X			
39	TP093_0.0-0.1	Aug 15, 2019		Soil	S19-Au25411		X												X					X	X	X		X			
40	TP093_0.4-0.5	Aug 15, 2019		Soil	S19-Au25412														X							X					
41	TP155_0.0-0.05	Aug 15, 2019		Soil	S19-Au25413		X												X		X					X	X		X		
42	TP155_0.05-0.15	Aug 15, 2019		Soil	S19-Au25414														X								X				
43	TP082_0.0-0.1	Aug 15, 2019		Soil	S19-Au25415		X												X	X						X					
44	TP082_1.2-1.3	Aug 15, 2019		Soil	S19-Au25416														X								X				

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
45	TP162_0.0-0.1	Aug 15, 2019		Soil	S19-Au25417																				X	X		X			
46	TP162_0.2-0.3	Aug 15, 2019		Soil	S19-Au25418	X						X							X		X					X					
47	TP158_0.0-0.1	Aug 15, 2019		Soil	S19-Au25419	X															X				X	X		X			
48	TP157_0.0-0.1	Aug 15, 2019		Soil	S19-Au25421	X													X							X					
49	TP094_0.0-0.1	Aug 15, 2019		Soil	S19-Au25422	X													X					X	X	X		X			
50	TP094_0.4-0.5	Aug 15, 2019		Soil	S19-Au25423														X							X					
51	TP156_0.0-0.1	Aug 15, 2019		Soil	S19-Au25424	X													X					X	X	X		X			
52	TP156_0.4-0.5	Aug 15, 2019		Soil	S19-Au25425														X							X					
53	TP105_0.0-0.1	Aug 15, 2019		Soil	S19-Au25426	X													X					X	X	X		X			
54	TP105_0.4-0.5	Aug 15, 2019		Soil	S19-Au25427														X							X					
55	TP104_0.0-0.1	Aug 15, 2019		Soil	S19-Au25428	X													X					X	X	X		X			
56	TP104_0.2-0.3	Aug 15, 2019		Soil	S19-Au25429														X					X		X					

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Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
57	TP116_0.0-0.1	Aug 15, 2019		Soil	S19-Au25430														X				X	X	X	X	X	X			
58	TP127_0.0-0.1	Aug 15, 2019		Soil	S19-Au25431							X							X	X			X		X	X	X	X			
59	TP106_0.4-0.5	Aug 15, 2019		Soil	S19-Au25503														X				X		X						
60	TP117_0.0-0.1	Aug 15, 2019		Soil	S19-Au25504		X												X	X			X		X	X	X				
61	TP126_0.0-0.1	Aug 15, 2019		Soil	S19-Au25505																			X		X					
62	TP126_0.2-0.3	Aug 15, 2019		Soil	S19-Au25506														X				X		X						
63	TP128_0.0-0.1	Aug 15, 2019		Soil	S19-Au25507														X	X			X		X	X	X				
64	TP129_0.0-0.1	Aug 15, 2019		Soil	S19-Au25508														X	X			X		X	X	X				
65	TP118_0.2-0.3	Aug 15, 2019		Soil	S19-Au25509														X				X		X	X	X				
66	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25510							X																			
67	BH091_0.0-0.1	Aug 15, 2019		Soil	S19-Au25511														X				X		X	X	X				
68	BH102_0.0-0.1	Aug 15, 2019		Soil	S19-Au25512														X	X			X		X						

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
69	BH114_0.0-0.1	Aug 15, 2019		Soil	S19-Au25513														X				X								
70	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25514														X	X			X		X		X				
71	BH081_0.0-0.1	Aug 15, 2019		Soil	S19-Au25515														X				X								
72	BH081_0.4-0.5	Aug 15, 2019		Soil	S19-Au25516							X																			
73	BH103_0.0-0.1	Aug 15, 2019		Soil	S19-Au25517														X				X								
74	BH092_0.0-0.1	Aug 15, 2019		Soil	S19-Au25518														X				X		X		X				
75	BH068_0.4-0.5	Aug 15, 2019		Soil	S19-Au25519														X				X								
76	BH069_0.0-0.1	Aug 15, 2019		Soil	S19-Au25520								X			X	X		X	X			X			X	X				
77	BH056_0.0-0.1	Aug 15, 2019		Soil	S19-Au25521														X				X	X	X		X		X		
78	BH057_0.4-0.5	Aug 15, 2019		Soil	S19-Au25522														X				X			X					
79	BH058_0.0-0.1	Aug 15, 2019		Soil	S19-Au25523														X				X		X		X				
80	BH078_0.0-0.1	Aug 15, 2019		Soil	S19-Au25524														X	X			X	X		X		X			

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 16, 2019 6:10 PM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
93	BH109_0.0-0.1	Aug 15, 2019		Soil	S19-Au25537														X	X			X								
94	TP131_0.2-0.3	Aug 15, 2019		Soil	S19-Au25538							X							X				X	X	X			X			
95	TP120_0.2-0.3	Aug 15, 2019		Soil	S19-Au25539														X				X								
96	TP130_0.4-0.5	Aug 15, 2019		Soil	S19-Au25540														X				X	X	X			X			
97	TP108_0.0-0.1	Aug 15, 2019		Soil	S19-Au25541														X				X	X	X			X			
98	TP097_0.2-0.3	Aug 15, 2019		Soil	S19-Au25542														X				X								
99	TP123_0.0-0.1	Aug 16, 2019		Soil	S19-Au25543														X	X			X								
100	TP112_0.0-0.1	Aug 16, 2019		Soil	S19-Au25544														X				X	X	X			X			
101	TP101_0.0-0.1	Aug 16, 2019		Soil	S19-Au25545														X				X								
102	TP090_0.0-0.1	Aug 16, 2019		Soil	S19-Au25546														X				X	X	X			X			
103	TP089_0.0-0.1	Aug 16, 2019		Soil	S19-Au25547														X				X								
104	TP100_0.0-0.1	Aug 16, 2019		Soil	S19-Au25548														X				X	X	X			X			

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
236	TP125_0.4-0.5	Aug 16, 2019		Soil	S19-Au25911						X																				
237	TP124_0.4-0.5	Aug 16, 2019		Soil	S19-Au25912						X																				
238	TP119_0.2-0.3	Aug 16, 2019		Soil	S19-Au25913						X																				
239	TP119_0.4-0.5	Aug 16, 2019		Soil	S19-Au25914						X																				
240	TP086_0.2-0.3	Aug 15, 2019		Soil	S19-Au25919							X																			
241	TP104_0.9-1.0	Aug 15, 2019		Soil	S19-Au25920							X																			
242	TP161_0.2-0.3	Aug 15, 2019		Soil	S19-Au25921							X																			
243	SW05	Aug 16, 2019		Water	S19-Au25922	X			X				X	X			X				X	X			X		X	X	X	X	
Test Counts						1	21	2	2	1	127	127	2	1	1	2	2	1	100	24	6	1	101	5	26	48	107	2	51	1	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill
Report 671915-AID
Project Name CENTRAL COAST DSI
Project ID 56387
Received Date Aug 16, 2019
Date Reported Aug 23, 2019

Methodology:

Asbestos Fibre Identification Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.
NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral Fibres Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.
NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil Samples The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.
NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-containing material (ACM) The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.
NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).
 The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).
NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name CENTRAL COAST DSI
Project ID 56387
Date Sampled Aug 15, 2019 to Aug 16, 2019
Report 671915-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH59_0.0-0.1	19-Au25381	Aug 15, 2019	Approximate Sample 264g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH77_0.0-0.1	19-Au25385	Aug 15, 2019	Approximate Sample 529g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP159_0.0-0.1	19-Au25394	Aug 15, 2019	Approximate Sample 782g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP083_0.0-0.1	19-Au25396	Aug 15, 2019	Approximate Sample 857g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP161_0.0-0.1	19-Au25403	Aug 15, 2019	Approximate Sample 438g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP085_0.0-0.1	19-Au25406	Aug 15, 2019	Approximate Sample 735g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP093_0.0-0.1	19-Au25411	Aug 15, 2019	Approximate Sample 540g Sample consisted of: Brown coarse-grained soil, rocks and cement	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP155_0.0-0.05	19-Au25413	Aug 15, 2019	Approximate Sample 870g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP082_0.0-0.1	19-Au25415	Aug 15, 2019	Approximate Sample 87g / 140x130x20mm Sample consisted of: Brown fragments of wood chips	No asbestos detected. Organic fibre detected. No trace asbestos detected.
TP162_0.2-0.3	19-Au25418	Aug 15, 2019	Approximate Sample 561g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP158_0.0-0.1	19-Au25419	Aug 15, 2019	Approximate Sample 512g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP157_0.0-0.1	19-Au25421	Aug 15, 2019	Approximate Sample 624g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP094_0.0-0.1	19-Au25422	Aug 15, 2019	Approximate Sample 605g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP156_0.0-0.1	19-Au25424	Aug 15, 2019	Approximate Sample 651g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP105_0.0-0.1	19-Au25426	Aug 15, 2019	Approximate Sample 546g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP104_0.0-0.1	19-Au25428	Aug 15, 2019	Approximate Sample 637g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP117_0.0-0.1	19-Au25504	Aug 15, 2019	Approximate Sample 469g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP099_0.0-0.1	19-Au25527	Aug 15, 2019	Approximate Sample 405g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH164_0.0-0.1	19-Au25532	Aug 16, 2019	Approximate Sample 408g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH163_0.0-0.1	19-Au25534	Aug 16, 2019	Approximate Sample 446g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
GROUND FRAG01	19-Au25558	Aug 16, 2019	Approximate Sample 18g / 60x50x4mm Sample consisted of: Grey fibre cement sheet	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH113_0.0-0.1	19-Au25856	Aug 15, 2019	Approximate Sample 498g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Aug 23, 2019	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Aug 23, 2019	Indefinite

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
External Laboratory																															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	TP110_0.0-0.1	Aug 15, 2019		Soil	S19-Au25372														X						X	X		X			
2	TP121_0.0-0.1	Aug 15, 2019		Soil	S19-Au25373																			X		X					
3	TP121_0.2-0.3	Aug 15, 2019		Soil	S19-Au25374														X							X					
4	BH98_0.0-0.1	Aug 15, 2019		Soil	S19-Au25375														X	X			X		X	X		X			
5	TP87_0.0-0.1	Aug 15, 2019		Soil	S19-Au25376														X	X			X		X	X		X			
6	TP76_0.2-0.3	Aug 15, 2019		Soil	S19-Au25377														X				X			X					
7	TP88_0.0-0.1	Aug 15, 2019		Soil	S19-Au25378															X						X					
8	TP88_0.2-0.3	Aug 15, 2019		Soil	S19-Au25379																X					X					
9	TP72_FRAG01	Aug 15, 2019		Building Materials	S19-Au25380														X												

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
10	BH59_0.0-0.1	Aug 15, 2019		Soil	S19-Au25381		X											X				X	X	X	X	X	X	X			
11	BH71_0.0-0.1	Aug 15, 2019		Soil	S19-Au25382							X						X	X			X		X	X	X	X	X			
12	BH13_0.0-0.1	Aug 15, 2019		Soil	S19-Au25383													X				X	X	X	X	X	X	X			
13	BH37_0.0-0.1	Aug 15, 2019		Soil	S19-Au25384													X				X		X	X	X	X	X			
14	BH77_0.0-0.1	Aug 15, 2019		Soil	S19-Au25385		X											X				X	X	X	X	X	X	X			
15	BH80_0.0-0.1	Aug 15, 2019		Soil	S19-Au25386													X	X			X			X						
16	BH65_0.0-0.1	Aug 15, 2019		Soil	S19-Au25387													X				X			X						
17	BH66_0.3-0.4	Aug 15, 2019		Soil	S19-Au25388													X				X			X						
18	BH67_0.0-0.1	Aug 15, 2019		Soil	S19-Au25389													X	X			X			X						
19	TP158_0.9-1.0	Aug 15, 2019		Soil	S19-Au25390													X				X	X	X	X	X	X	X			
20	TP072_0.0-0.1	Aug 15, 2019		Soil	S19-Au25391														X						X						
21	TP072_0.4-0.5	Aug 15, 2019		Soil	S19-Au25392													X				X		X	X	X	X	X			

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
22	TP084_0.0-0.1	Aug 15, 2019		Soil	S19-Au25393														X				X								
23	TP159_0.0-0.1	Aug 15, 2019		Soil	S19-Au25394		X												X				X		X						
24	TP095_0.0-0.1	Aug 15, 2019		Soil	S19-Au25395														X				X								
25	TP083_0.0-0.1	Aug 15, 2019		Soil	S19-Au25396		X												X				X	X	X						
26	TP160_0.4-0.5	Aug 15, 2019		Soil	S19-Au25397														X				X		X						
27	TP073_0.0-0.1	Aug 15, 2019		Soil	S19-Au25398														X				X			X					
28	TP073_0.4-0.5	Aug 15, 2019		Soil	S19-Au25399														X				X			X					
29	TP106_0.0-0.1	Aug 15, 2019		Soil	S19-Au25400														X	X			X			X					
30	TP106_0.2-0.3	Aug 15, 2019		Soil	S19-Au25401														X		X		X			X					
31	TP107_0.0-0.1	Aug 15, 2019		Soil	S19-Au25402														X	X			X			X					
32	TP161_0.0-0.1	Aug 15, 2019		Soil	S19-Au25403		X												X		X		X		X	X					
33	TP161_0.4-0.5	Aug 15, 2019		Soil	S19-Au25404														X		X		X			X					

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
34	TP096_0.0-0.1	Aug 15, 2019		Soil	S19-Au25405													X				X									
35	TP085_0.0-0.1	Aug 15, 2019		Soil	S19-Au25406		X											X				X		X	X		X				
36	TP074_0.0-0.1	Aug 15, 2019		Soil	S19-Au25407													X				X	X	X	X		X				
37	TP075_0.2-0.3	Aug 15, 2019		Soil	S19-Au25408													X				X	X	X	X		X				
38	TP127_0.2-0.3	Aug 15, 2019		Soil	S19-Au25410													X	X			X		X	X		X				
39	TP093_0.0-0.1	Aug 15, 2019		Soil	S19-Au25411		X											X				X	X	X	X		X				
40	TP093_0.4-0.5	Aug 15, 2019		Soil	S19-Au25412													X				X			X						
41	TP155_0.0-0.05	Aug 15, 2019		Soil	S19-Au25413		X											X		X		X		X	X		X				
42	TP155_0.05-0.15	Aug 15, 2019		Soil	S19-Au25414													X				X			X						
43	TP082_0.0-0.1	Aug 15, 2019		Solid	S19-Au25415			X										X	X			X			X						
44	TP082_1.2-1.3	Aug 15, 2019		Soil	S19-Au25416													X				X			X						

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
45	TP162_0.0-0.1	Aug 15, 2019		Soil	S19-Au25417																				X	X		X			
46	TP162_0.2-0.3	Aug 15, 2019		Soil	S19-Au25418	X													X		X					X					
47	TP158_0.0-0.1	Aug 15, 2019		Soil	S19-Au25419	X															X				X	X		X			
48	TP157_0.0-0.1	Aug 15, 2019		Soil	S19-Au25421	X													X							X					
49	TP094_0.0-0.1	Aug 15, 2019		Soil	S19-Au25422	X													X					X	X	X		X			
50	TP094_0.4-0.5	Aug 15, 2019		Soil	S19-Au25423														X							X					
51	TP156_0.0-0.1	Aug 15, 2019		Soil	S19-Au25424	X													X					X	X	X		X			
52	TP156_0.4-0.5	Aug 15, 2019		Soil	S19-Au25425														X							X					
53	TP105_0.0-0.1	Aug 15, 2019		Soil	S19-Au25426	X													X					X	X	X		X			
54	TP105_0.4-0.5	Aug 15, 2019		Soil	S19-Au25427														X							X					
55	TP104_0.0-0.1	Aug 15, 2019		Soil	S19-Au25428	X													X					X	X	X		X			
56	TP104_0.2-0.3	Aug 15, 2019		Soil	S19-Au25429														X					X		X					

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Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
57	TP116_0.0-0.1	Aug 15, 2019		Soil	S19-Au25430														X				X	X	X		X				
58	TP127_0.0-0.1	Aug 15, 2019		Soil	S19-Au25431							X							X	X			X		X	X		X			
59	TP106_0.4-0.5	Aug 15, 2019		Soil	S19-Au25503														X				X		X						
60	TP117_0.0-0.1	Aug 15, 2019		Soil	S19-Au25504		X												X	X			X		X	X		X			
61	TP126_0.0-0.1	Aug 15, 2019		Soil	S19-Au25505																			X		X					
62	TP126_0.2-0.3	Aug 15, 2019		Soil	S19-Au25506														X				X		X						
63	TP128_0.0-0.1	Aug 15, 2019		Soil	S19-Au25507														X	X			X		X	X		X			
64	TP129_0.0-0.1	Aug 15, 2019		Soil	S19-Au25508														X	X			X		X	X		X			
65	TP118_0.2-0.3	Aug 15, 2019		Soil	S19-Au25509														X				X		X	X		X			
66	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25510							X																			
67	BH091_0.0-0.1	Aug 15, 2019		Soil	S19-Au25511														X				X		X		X				
68	BH102_0.0-0.1	Aug 15, 2019		Soil	S19-Au25512														X	X			X		X						

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 16, 2019 6:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671915	Due:	Aug 23, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
69	BH114_0.0-0.1	Aug 15, 2019		Soil	S19-Au25513														X				X									
70	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25514														X	X			X		X		X					
71	BH081_0.0-0.1	Aug 15, 2019		Soil	S19-Au25515														X				X									
72	BH081_0.4-0.5	Aug 15, 2019		Soil	S19-Au25516							X																				
73	BH103_0.0-0.1	Aug 15, 2019		Soil	S19-Au25517														X				X									
74	BH092_0.0-0.1	Aug 15, 2019		Soil	S19-Au25518														X				X		X		X					
75	BH068_0.4-0.5	Aug 15, 2019		Soil	S19-Au25519														X				X									
76	BH069_0.0-0.1	Aug 15, 2019		Soil	S19-Au25520								X		X	X			X	X			X			X	X					
77	BH056_0.0-0.1	Aug 15, 2019		Soil	S19-Au25521														X				X	X	X		X		X			
78	BH057_0.4-0.5	Aug 15, 2019		Soil	S19-Au25522														X				X				X					
79	BH058_0.0-0.1	Aug 15, 2019		Soil	S19-Au25523														X				X		X		X					
80	BH078_0.0-0.1	Aug 15, 2019		Soil	S19-Au25524														X	X			X	X		X		X				

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
81	BH078_0.3-0.4	Aug 15, 2019		Soil	S19-Au25525								X			X	X														
82	TP132_0.0-0.1	Aug 15, 2019		Soil	S19-Au25526							X						X	X				X								
83	TP099_0.0-0.1	Aug 15, 2019		Soil	S19-Au25527		X												X				X								
84	TP099_0.2-0.3	Aug 15, 2019		Soil	S19-Au25528														X				X								
85	TP097_0.4-0.5	Aug 15, 2019		Soil	S19-Au25529														X				X								
86	TP086_0.0-0.1	Aug 15, 2019		Soil	S19-Au25530														X				X		X	X		X			
87	TP133_0.0-0.1	Aug 16, 2019		Soil	S19-Au25531														X	X			X								
88	BH164_0.0-0.1	Aug 16, 2019		Soil	S19-Au25532		X												X				X	X	X	X		X			
89	BH165_0.2-0.3	Aug 16, 2019		Soil	S19-Au25533														X				X	X	X	X		X			
90	BH163_0.0-0.1	Aug 16, 2019		Soil	S19-Au25534		X												X				X	X	X	X		X			
91	TP134_0.0-0.1	Aug 16, 2019		Soil	S19-Au25535														X				X								
92	TP136_0.0-0.1	Aug 16, 2019		Soil	S19-Au25536														X				X								

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
93	BH109_0.0-0.1	Aug 15, 2019		Soil	S19-Au25537													X	X			X									
94	TP131_0.2-0.3	Aug 15, 2019		Soil	S19-Au25538													X				X	X	X			X				
95	TP120_0.2-0.3	Aug 15, 2019		Soil	S19-Au25539													X				X									
96	TP130_0.4-0.5	Aug 15, 2019		Soil	S19-Au25540													X				X		X	X		X				
97	TP108_0.0-0.1	Aug 15, 2019		Soil	S19-Au25541													X				X		X	X		X				
98	TP097_0.2-0.3	Aug 15, 2019		Soil	S19-Au25542													X				X			X						
99	TP123_0.0-0.1	Aug 16, 2019		Soil	S19-Au25543													X	X			X			X						
100	TP112_0.0-0.1	Aug 16, 2019		Soil	S19-Au25544													X				X		X	X		X				
101	TP101_0.0-0.1	Aug 16, 2019		Soil	S19-Au25545													X				X			X						
102	TP090_0.0-0.1	Aug 16, 2019		Soil	S19-Au25546													X				X	X	X	X		X				
103	TP089_0.0-0.1	Aug 16, 2019		Soil	S19-Au25547													X				X			X						
104	TP100_0.0-0.1	Aug 16, 2019		Soil	S19-Au25548													X				X	X	X	X		X				

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
105	TP111_0.0-0.1	Aug 16, 2019		Soil	S19-Au25549														X				X									
106	TP122_0.0-0.1	Aug 16, 2019		Soil	S19-Au25550														X				X		X			X				
107	TP079_0.0-0.1	Aug 16, 2019		Soil	S19-Au25551														X				X									
108	TP125_0.0-0.1	Aug 16, 2019		Soil	S19-Au25552														X				X		X			X				
109	TP124_0.0-0.1	Aug 16, 2019		Soil	S19-Au25553														X				X									
110	TP119_0.0-0.1	Aug 16, 2019		Soil	S19-Au25554														X				X		X			X				
111	RIN05	Aug 16, 2019		Water	S19-Au25555														X				X		X			X				
112	TS	Aug 16, 2019		Water	S19-Au25556																		X									
113	TB	Aug 16, 2019		Water	S19-Au25557																		X									
114	GROUND FRAG01	Aug 16, 2019		Building Materials	S19-Au25558			X																								
115	TP110_0.4-0.5	Aug 15, 2019		Soil	S19-Au25788						X																					

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Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specciated)	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
116	TP121_0.4-0.5	Aug 15, 2019		Soil	S19-Au25789						X																				
117	BH98_0.2-0.3	Aug 15, 2019		Soil	S19-Au25790						X																				
118	BH98_0.4-0.5	Aug 15, 2019		Soil	S19-Au25791						X																				
119	TP87_0.2-0.3	Aug 15, 2019		Soil	S19-Au25792						X																				
120	TP87_0.4-0.5	Aug 15, 2019		Soil	S19-Au25793						X																				
121	TP76_0.0-0.1	Aug 15, 2019		Soil	S19-Au25794						X																				
122	TP76_0.4-0.5	Aug 15, 2019		Soil	S19-Au25795						X																				
123	TP88_0.4-0.5	Aug 15, 2019		Soil	S19-Au25796						X																				
124	BH59_0.3-0.4	Aug 15, 2019		Soil	S19-Au25797						X																				
125	BH71_0.4-0.5	Aug 15, 2019		Soil	S19-Au25798						X																				
126	BH71_0.9-1.0	Aug 15, 2019		Soil	S19-Au25799						X																				
127	BH13_0.3-0.4	Aug 15, 2019		Soil	S19-Au25800						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271			X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X	X		X																				
Brisbane Laboratory - NATA Site # 20794																												X
Perth Laboratory - NATA Site # 23736																												
128	BH37_0.4-0.5	Aug 15, 2019						X																				
129	BH77_0.4-0.5	Aug 15, 2019						X																				
130	BH80_0.4-0.5	Aug 15, 2019						X																				
131	BH65_0.4-0.5	Aug 15, 2019						X																				
132	BH66_0.0-0.1	Aug 15, 2019						X																				
133	BH67_0.3-0.4	Aug 15, 2019						X																				
134	TP158_1.4-1.5	Aug 15, 2019						X																				
135	TP084_0.4-0.5	Aug 15, 2019						X																				
136	TP159_0.4-0.5	Aug 15, 2019						X																				
137	TP095_0.4-0.5	Aug 15, 2019						X																				
138	TP083_0.4-0.5	Aug 15, 2019						X																				
139	TP083_0.9-1.0	Aug 15, 2019						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
140	TP160_0.0-0.1	Aug 15, 2019		Soil	S19-Au25813						X																					
141	TP107_0.2-0.3	Aug 15, 2019		Soil	S19-Au25814						X																					
142	TP107_0.4-0.5	Aug 15, 2019		Soil	S19-Au25815						X																					
143	TP096_0.2-0.3	Aug 15, 2019		Soil	S19-Au25816						X																					
144	TP096_0.4-0.5	Aug 15, 2019		Soil	S19-Au25817						X																					
145	TP085_0.2-0.3	Aug 15, 2019		Soil	S19-Au25818						X																					
146	TP085_0.4-0.5	Aug 15, 2019		Soil	S19-Au25819						X																					
147	TP074_0.2-0.3	Aug 15, 2019		Soil	S19-Au25820						X																					
148	TP074_0.4-0.5	Aug 15, 2019		Soil	S19-Au25821						X																					
149	TP075_0.0-0.1	Aug 15, 2019		Soil	S19-Au25822						X																					
150	TP075_0.4-0.5	Aug 15, 2019		Soil	S19-Au25823						X																					
151	TP127_0.4-0.5	Aug 15, 2019		Soil	S19-Au25824						X																					

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Project ID: 56387		

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X			X																					
Brisbane Laboratory - NATA Site # 20794																															X		
Perth Laboratory - NATA Site # 23736																																	
152	TP093_0.8-0.9	Aug 15, 2019		Soil	S19-Au25825						X																						
153	TP155_0.6-0.7	Aug 15, 2019		Soil	S19-Au25826						X																						
154	TP082_0.4-0.5	Aug 15, 2019		Soil	S19-Au25827						X																						
155	TP082_1.6-1.7	Aug 15, 2019		Soil	S19-Au25828						X																						
156	TP162_0.4-0.5	Aug 15, 2019		Soil	S19-Au25829						X																						
157	TP158_0.4-0.5	Aug 15, 2019		Soil	S19-Au25830						X																						
158	TP157_0.4-0.5	Aug 15, 2019		Soil	S19-Au25832						X																						
159	TP157_0.9-1.0	Aug 15, 2019		Soil	S19-Au25833						X																						
160	TP094_0.9-1.0	Aug 15, 2019		Soil	S19-Au25834						X																						
161	TP156_0.9-1.0	Aug 15, 2019		Soil	S19-Au25835						X																						
162	TP105_0.9-1.0	Aug 15, 2019		Soil	S19-Au25836						X																						
163	TP104_0.4-0.5	Aug 15, 2019		Soil	S19-Au25837				X																								

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
164	TP116_0.4-0.5	Aug 15, 2019		Soil	S19-Au25838						X																				
165	TP116_0.9-1.0	Aug 15, 2019		Soil	S19-Au25839						X																				
166	TP106_0.9-1.0	Aug 15, 2019		Soil	S19-Au25840						X																				
167	TP117_0.2-0.3	Aug 15, 2019		Soil	S19-Au25841						X																				
168	TP117_0.4-0.5	Aug 15, 2019		Soil	S19-Au25842						X																				
169	TP126_0.4-0.5	Aug 15, 2019		Soil	S19-Au25843						X																				
170	TP128_0.2-0.3	Aug 15, 2019		Soil	S19-Au25844						X																				
171	TP128_0.4-0.5	Aug 15, 2019		Soil	S19-Au25845						X																				
172	TP128_0.9-1.0	Aug 15, 2019		Soil	S19-Au25846						X																				
173	TP129_0.2-0.3	Aug 15, 2019		Soil	S19-Au25847						X																				
174	TP129_0.4-0.5	Aug 15, 2019		Soil	S19-Au25848						X																				
175	TP118_0.0-0.1	Aug 15, 2019		Soil	S19-Au25849						X																				

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X			X																					
Brisbane Laboratory - NATA Site # 20794																														X			
Perth Laboratory - NATA Site # 23736																																	
176	TP118_0.4-0.5	Aug 15, 2019		Soil	S19-Au25850						X																						
177	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25852			X																									
178	BH091_0.4-0.5	Aug 15, 2019		Soil	S19-Au25853						X																						
179	BH102_0.3-0.4	Aug 15, 2019		Soil	S19-Au25854						X																						
180	BH114_0.5-0.6	Aug 15, 2019		Soil	S19-Au25855						X																						
181	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25856		X																										
182	BH103_0.4-0.5	Aug 15, 2019		Soil	S19-Au25857						X																						
183	BH092_0.4-0.5	Aug 15, 2019		Soil	S19-Au25858						X																						
184	BH067_0.5-0.6	Aug 15, 2019		Soil	S19-Au25859						X																						
185	BH068_0.0-0.1	Aug 15, 2019		Soil	S19-Au25860						X																						
186	BH069_0.3-0.4	Aug 15, 2019		Soil	S19-Au25861						X																						
187	BH056_0.3-0.4	Aug 15, 2019		Soil	S19-Au25862						X																						

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 16, 2019 6:10 PM
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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																														X		
Perth Laboratory - NATA Site # 23736																																
188	BH057_0.0-0.1	Aug 15, 2019		Soil	S19-Au25863						X																					
189	BH058_0.3-0.4	Aug 15, 2019		Soil	S19-Au25864						X																					
190	TP132_0.2-0.3	Aug 15, 2019		Soil	S19-Au25865						X																					
191	TP132_0.5-0.6	Aug 15, 2019		Soil	S19-Au25866						X																					
192	TP099_0.4-0.5	Aug 15, 2019		Soil	S19-Au25867						X																					
193	TP097_0.9-1.0	Aug 15, 2019		Soil	S19-Au25868						X																					
194	TP097_1.3-1.4	Aug 15, 2019		Soil	S19-Au25869						X																					
195	TP086_0.4-0.5	Aug 15, 2019		Soil	S19-Au25870						X																					
196	TP133_0.2-0.3	Aug 15, 2019		Soil	S19-Au25871						X																					
197	TP133_0.4-0.5	Aug 15, 2019		Soil	S19-Au25872						X																					
198	BH164_0.2-0.3	Aug 15, 2019		Soil	S19-Au25873						X																					
199	BH165_0.0-0.1	Aug 15, 2019		Soil	S19-Au25874						X																					

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
200	BH163_0.2-0.3	Aug 15, 2019		Soil	S19-Au25875						X																				
201	TP134_0.4-0.5	Aug 15, 2019		Soil	S19-Au25876						X																				
202	TP136_0.2-0.3	Aug 15, 2019		Soil	S19-Au25877						X																				
203	BH109_0.2-0.3	Aug 15, 2019		Soil	S19-Au25878						X																				
204	BH109_0.4-0.5	Aug 15, 2019		Soil	S19-Au25879						X																				
205	TP131_0.1-0.2	Aug 15, 2019		Soil	S19-Au25880						X																				
206	TP131_0.4-0.5	Aug 15, 2019		Soil	S19-Au25881						X																				
207	TP131_0.9-1.0	Aug 15, 2019		Soil	S19-Au25882						X																				
208	TP120_0.0-0.1	Aug 15, 2019		Soil	S19-Au25883						X																				
209	TP120_0.4-0.5	Aug 15, 2019		Soil	S19-Au25884						X																				
210	TP130_0.0-0.1	Aug 15, 2019		Soil	S19-Au25885						X																				
211	TP130_0.2-0.3	Aug 15, 2019		Soil	S19-Au25886						X																				

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
212	TP130_0.9-1.0	Aug 15, 2019		Soil	S19-Au25887						X																				
213	TP108_0.2-0.3	Aug 15, 2019		Soil	S19-Au25888						X																				
214	TP108_0.4-0.5	Aug 15, 2019		Soil	S19-Au25889						X																				
215	TP097_0.0-0.1	Aug 15, 2019		Soil	S19-Au25890						X																				
216	TP136_0.5-0.6	Aug 16, 2019		Soil	S19-Au25891						X																				
217	TP123_0.2-0.3	Aug 16, 2019		Soil	S19-Au25892						X																				
218	TP123_0.4-0.5	Aug 16, 2019		Soil	S19-Au25893						X																				
219	TP123_0.9-1.0	Aug 16, 2019		Soil	S19-Au25894						X																				
220	TP112_0.2-0.3	Aug 16, 2019		Soil	S19-Au25895						X																				
221	TP112_0.4-0.5	Aug 16, 2019		Soil	S19-Au25896						X																				
222	TP101_0.2-0.3	Aug 16, 2019		Soil	S19-Au25897						X																				
223	TP101_0.4-0.5	Aug 16, 2019		Soil	S19-Au25898						X																				

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Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polycyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X		X																					
Brisbane Laboratory - NATA Site # 20794																																X
Perth Laboratory - NATA Site # 23736																																
224	TP090_0.2-0.3	Aug 16, 2019		Soil	S19-Au25899						X																					
225	TP090_0.4-0.5	Aug 16, 2019		Soil	S19-Au25900						X																					
226	TP089_0.2-0.3	Aug 16, 2019		Soil	S19-Au25901						X																					
227	TP100_0.2-0.3	Aug 16, 2019		Soil	S19-Au25902						X																					
228	TP100_0.4-0.5	Aug 16, 2019		Soil	S19-Au25903						X																					
229	TP111_0.2-0.3	Aug 16, 2019		Soil	S19-Au25904						X																					
230	TP111_0.4-0.5	Aug 16, 2019		Soil	S19-Au25905						X																					
231	TP111_0.9-1.0	Aug 16, 2019		Soil	S19-Au25906						X																					
232	TP122_0.2-0.3	Aug 16, 2019		Soil	S19-Au25907						X																					
233	TP122_0.4-0.5	Aug 16, 2019		Soil	S19-Au25908						X																					
234	TP079_0.2-0.3	Aug 16, 2019		Soil	S19-Au25909						X																					
235	TP079_0.4-0.5	Aug 16, 2019		Soil	S19-Au25910						X																					

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 16, 2019 6:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	671915	Due:	Aug 23, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
236	TP125_0.4-0.5	Aug 16, 2019		Soil	S19-Au25911						X																				
237	TP124_0.4-0.5	Aug 16, 2019		Soil	S19-Au25912						X																				
238	TP119_0.2-0.3	Aug 16, 2019		Soil	S19-Au25913						X																				
239	TP119_0.4-0.5	Aug 16, 2019		Soil	S19-Au25914						X																				
240	TP086_0.2-0.3	Aug 15, 2019		Soil	S19-Au25919							X																			
241	TP104_0.9-1.0	Aug 15, 2019		Soil	S19-Au25920							X																			
242	TP161_0.2-0.3	Aug 15, 2019		Soil	S19-Au25921							X																			
243	SW05	Aug 16, 2019		Water	S19-Au25922	X			X				X	X			X					X	X		X		X	X	X	X	
Test Counts						1	20	2	3	1	127	127	2	1	1	2	2	1	100	24	6	1	101	5	26	48	107	2	51	1	1

Internal Quality Control Review and Glossary
General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos (NSW)

Authorised by:

Sayed Abu Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill

Report 671915-S
 Project name CENTRAL COAST DSI
 Project ID 56387
 Received Date Aug 16, 2019

Client Sample ID			TP110_0.0-0.1	TP121_0.0-0.1	TP121_0.2-0.3	BH98_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25372	S19-Au25373	S19-Au25374	S19-Au25375
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			TP110_0.0-0.1	TP121_0.0-0.1	TP121_0.2-0.3	BH98_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25372	S19-Au25373	S19-Au25374	S19-Au25375
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	81	-	-	88
Toluene-d8 (surr.)	1	%	95	-	-	95
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			TP110_0.0-0.1	TP121_0.0-0.1	TP121_0.2-0.3	BH98_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25372	S19-Au25373	S19-Au25374	S19-Au25375
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	66	-	73	89
p-Terphenyl-d14 (surr.)	1	%	119	-	69	108
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	84	-	91
Tetrachloro-m-xylene (surr.)	1	%	-	113	-	135
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			TP110_0.0-0.1	TP121_0.0-0.1	TP121_0.2-0.3	BH98_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25372	S19-Au25373	S19-Au25374	S19-Au25375
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchloroendate (surr.)	1	%	-	84	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	113	-	-
% Moisture	1	%	8.6	14	12	7.6
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	< 2	11
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	< 5	22
Copper	5	mg/kg	< 5	-	< 5	< 5
Lead	5	mg/kg	< 5	-	< 5	22
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	< 5	-	< 5	< 5

Client Sample ID			TP87_0.0-0.1	TP76_0.2-0.3	TP88_0.0-0.1	TP88_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25376	S19-Au25377	S19-Au25378	S19-Au25379
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-

Client Sample ID			TP87_0.0-0.1	TP76_0.2-0.3	TP88_0.0-0.1	TP88_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25376	S19-Au25377	S19-Au25378	S19-Au25379
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	84	-	-	-
Toluene-d8 (surr.)	1	%	86	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			TP87_0.0-0.1	TP76_0.2-0.3	TP88_0.0-0.1	TP88_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25376	S19-Au25377	S19-Au25378	S19-Au25379
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89	87	-	88
p-Terphenyl-d14 (surr.)	1	%	111	102	-	102
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	57	-	53	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	95	-

Client Sample ID			TP87_0.0-0.1	TP76_0.2-0.3	TP88_0.0-0.1	TP88_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25376	S19-Au25377	S19-Au25378	S19-Au25379
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
% Moisture	1	%	12	22	3.8	27
Heavy Metals						
Arsenic	2	mg/kg	2.0	3.7	-	2.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	17	-	22
Copper	5	mg/kg	< 5	< 5	-	< 5
Lead	5	mg/kg	7.0	8.5	-	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	< 5	-	< 5
Zinc	5	mg/kg	8.2	5.7	-	8.7

Client Sample ID			BH59_0.0-0.1	BH71_0.0-0.1	BH13_0.0-0.1	BH37_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25381	S19-Au25382	S19-Au25383	S19-Au25384
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH59_0.0-0.1	BH71_0.0-0.1	BH13_0.0-0.1	BH37_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25381	S19-Au25382	S19-Au25383	S19-Au25384
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	68	83	84	83
Toluene-d8 (surr.)	1	%	81	89	90	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH59_0.0-0.1	BH71_0.0-0.1	BH13_0.0-0.1	BH37_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25381	S19-Au25382	S19-Au25383	S19-Au25384
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	88	83	85
p-Terphenyl-d14 (surr.)	1	%	81	111	104	82
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	< 1	< 1	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	103	86	98	-
Tetrachloro-m-xylene (surr.)	1	%	73	108	101	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-

Client Sample ID			BH59_0.0-0.1	BH71_0.0-0.1	BH13_0.0-0.1	BH37_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25381	S19-Au25382	S19-Au25383	S19-Au25384
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	103	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	73	-	101	-
% Moisture						
	1	%	22	13	5.6	15
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.4	< 2	4.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.0	8.5	8.2
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	6.7	< 5	8.5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	17	< 5	18

Client Sample ID			BH77_0.0-0.1	BH80_0.0-0.1	BH65_0.0-0.1	BH66_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25385	S19-Au25386	S19-Au25387	S19-Au25388
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH77_0.0-0.1	BH80_0.0-0.1	BH65_0.0-0.1	BH66_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25385	S19-Au25386	S19-Au25387	S19-Au25388
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	58	-	-	-
Toluene-d8 (surr.)	1	%	63	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			BH77_0.0-0.1	BH80_0.0-0.1	BH65_0.0-0.1	BH66_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25385	S19-Au25386	S19-Au25387	S19-Au25388
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	89	74	85
p-Terphenyl-d14 (surr.)	1	%	97	121	119	142
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	94	62	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	104	-	-

Client Sample ID			BH77_0.0-0.1	BH80_0.0-0.1	BH65_0.0-0.1	BH66_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25385	S19-Au25386	S19-Au25387	S19-Au25388
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	94	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-
% Moisture						
	1	%	9.0	24	3.9	27
Heavy Metals						
Arsenic	2	mg/kg	19	< 2	< 2	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	< 5	< 5	21
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	19	< 5	5.2	12
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	6.7	< 5	< 5	9.2

Client Sample ID			BH67_0.0-0.1	TP158_0.9-1.0	TP072_0.0-0.1	TP072_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25389	S19-Au25390	S19-Au25391	S19-Au25392
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			BH67_0.0-0.1	TP158_0.9-1.0	TP072_0.0-0.1	TP072_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25389	S19-Au25390	S19-Au25391	S19-Au25392
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,3,5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	88	-	79
Toluene-d8 (surr.)	1	%	-	92	-	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50

Client Sample ID			BH67_0.0-0.1	TP158_0.9-1.0	TP072_0.0-0.1	TP072_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25389	S19-Au25390	S19-Au25391	S19-Au25392
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	83	-	77
p-Terphenyl-d14 (surr.)	1	%	112	83	-	126
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	0.22	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	0.21	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	0.46	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	< 1	< 1	< 1	-

Client Sample ID			BH67_0.0-0.1	TP158_0.9-1.0	TP072_0.0-0.1	TP072_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25389	S19-Au25390	S19-Au25391	S19-Au25392
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	0.89	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.89	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	50	107	51	-
Tetrachloro-m-xylene (surr.)	1	%	108	70	116	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	107	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	70	-	-
% Moisture	1	%	4.8	9.8	8.7	24
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.6	-	3.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	12	-	20
Copper	5	mg/kg	< 5	< 5	-	< 5
Lead	5	mg/kg	< 5	10	-	8.5
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	< 5	-	< 5
Zinc	5	mg/kg	< 5	15	-	11

Client Sample ID			TP084_0.0-0.1	TP159_0.0-0.1	TP095_0.0-0.1	TP083_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25393	S19-Au25394	S19-Au25395	S19-Au25396
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP084_0.0-0.1	TP159_0.0-0.1	TP095_0.0-0.1	TP083_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25393	S19-Au25394	S19-Au25395	S19-Au25396
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1,2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1,2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1,2,3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1,2,4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1,3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1,3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1,3,5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP084_0.0-0.1	TP159_0.0-0.1	TP095_0.0-0.1	TP083_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25393	S19-Au25394	S19-Au25395	S19-Au25396
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	-	89	-	94
Toluene-d8 (surr.)	1	%	-	85	-	99
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	82	85	81
p-Terphenyl-d14 (surr.)	1	%	138	132	91	79
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID			TP084_0.0-0.1	TP159_0.0-0.1	TP095_0.0-0.1	TP083_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25393	S19-Au25394	S19-Au25395	S19-Au25396
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorodate (surr.)	1	%	-	-	-	96
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	69
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorodate (surr.)	1	%	-	-	-	96
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	69
% Moisture	1	%	7.1	11	7.5	6.3
Heavy Metals						
Arsenic	2	mg/kg	2.1	< 2	8.0	24
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	11	30
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	9.7	13	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	6.5	5.1	14

Client Sample ID			TP160_0.4-0.5	TP073_0.0-0.1	TP073_0.4-0.5	TP106_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25397	S19-Au25398	S19-Au25399	S19-Au25400
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP160_0.4-0.5	TP073_0.0-0.1	TP073_0.4-0.5	TP106_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25397	S19-Au25398	S19-Au25399	S19-Au25400
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81	85	68	89
p-Terphenyl-d14 (surr.)	1	%	67	95	122	120
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	1	mg/kg	< 1	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	86	-	-	89
Tetrachloro-m-xylene (surr.)	1	%	67	-	-	120
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-

Client Sample ID			TP160_0.4-0.5	TP073_0.0-0.1	TP073_0.4-0.5	TP106_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25397	S19-Au25398	S19-Au25399	S19-Au25400
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	86	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	67	-	-	-
% Moisture	1	%	24	6.0	16	9.6
Heavy Metals						
Arsenic	2	mg/kg	4.9	< 2	3.5	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	50	< 5	11	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	21	7.5	8.2	6.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	6.9	< 5	6.4

Client Sample ID			TP106_0.2-0.3	TP107_0.0-0.1	TP161_0.0-0.1	TP161_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25401	S19-Au25402	S19-Au25403	S19-Au25404
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP106_0.2-0.3	TP107_0.0-0.1	TP161_0.0-0.1	TP161_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25401	S19-Au25402	S19-Au25403	S19-Au25404
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	89	-
Toluene-d8 (surr.)	1	%	-	-	87	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-

Client Sample ID			TP106_0.2-0.3	TP107_0.0-0.1	TP161_0.0-0.1	TP161_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25401	S19-Au25402	S19-Au25403	S19-Au25404
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	65	65	88	67
p-Terphenyl-d14 (surr.)	1	%	67	68	94	71
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	60	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	67	-	-

Client Sample ID			TP106_0.2-0.3	TP107_0.0-0.1	TP161_0.0-0.1	TP161_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25401	S19-Au25402	S19-Au25403	S19-Au25404
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	65	-	53	71
Tetrachloro-m-xylene (surr.)	1	%	67	-	91	69
% Moisture						
	1	%	6.9	7.8	9.5	12
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	2.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	5.9	19
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	5.5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	9.4	< 5

Client Sample ID			TP096_0.0-0.1	TP085_0.0-0.1	TP074_0.0-0.1	TP075_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25405	S19-Au25406	S19-Au25407	S19-Au25408
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			TP096_0.0-0.1	TP085_0.0-0.1	TP074_0.0-0.1	TP075_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25405	S19-Au25406	S19-Au25407	S19-Au25408
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,3,5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1,4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1,2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1,3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	88	77	-
Toluene-d8 (surr.)	1	%	-	85	86	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-

Client Sample ID			TP096_0.0-0.1	TP085_0.0-0.1	TP074_0.0-0.1	TP075_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25405	S19-Au25406	S19-Au25407	S19-Au25408
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	89	104	72
p-Terphenyl-d14 (surr.)	1	%	119	112	110	77
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	1	mg/kg	-	-	< 1	< 1

Client Sample ID			TP096_0.0-0.1	TP085_0.0-0.1	TP074_0.0-0.1	TP075_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25405	S19-Au25406	S19-Au25407	S19-Au25408
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	59	79
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	74
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	59	79
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	74
% Moisture	1	%	11	7.4	9.1	5.8
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	34
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	29
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	6.0	< 5	15	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	7.4	< 5	< 5	7.7

Client Sample ID			TP127_0.2-0.3	TP093_0.0-0.1	TP093_0.4-0.5	TP155_0.0-0.05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25410	S19-Au25411	S19-Au25412	S19-Au25413
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			TP127_0.2-0.3	TP093_0.0-0.1	TP093_0.4-0.5	TP155_0.0-0.05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25410	S19-Au25411	S19-Au25412	S19-Au25413
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,2,3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,2,4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,3,5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			TP127_0.2-0.3	TP093_0.0-0.1	TP093_0.4-0.5	TP155_0.0-0.05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25410	S19-Au25411	S19-Au25412	S19-Au25413
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	85	71	-	101
Toluene-d8 (surr.)	1	%	83	75	-	102
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	69	85	84	124
p-Terphenyl-d14 (surr.)	1	%	72	105	130	141
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-

Client Sample ID			TP127_0.2-0.3	TP093_0.0-0.1	TP093_0.4-0.5	TP155_0.0-0.05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25410	S19-Au25411	S19-Au25412	S19-Au25413
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	68	146	-	-
Tetrachloro-m-xylene (surr.)	1	%	69	79	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	146	-	138
Tetrachloro-m-xylene (surr.)	1	%	-	79	-	125
% Moisture						
	1	%	15	15	19	4.9
Heavy Metals						
Arsenic	2	mg/kg	3.2	2.3	5.7	4.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	< 5	19	1200
Copper	5	mg/kg	< 5	< 5	< 5	110
Lead	5	mg/kg	9.1	9.9	7.7	19
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	420
Zinc	5	mg/kg	< 5	11	< 5	130

Client Sample ID			TP155_0.05-0.15	TP082_0.0-0.1	TP082_1.2-1.3	TP162_0.0-0.1
Sample Matrix			Soil	Solid	Soil	Soil
Eurofins Sample No.			S19-Au25414	S19-Au25415	S19-Au25416	S19-Au25417
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	59
TRH C10-C36 (Total)	50	mg/kg	-	-	-	59

Client Sample ID			TP155_0.05-0.15 Soil S19-Au25414 Aug 15, 2019	TP082_0.0-0.1 Solid S19-Au25415 Aug 15, 2019	TP082_1.2-1.3 Soil S19-Au25416 Aug 15, 2019	TP162_0.0-0.1 Soil S19-Au25417 Aug 15, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP155_0.05-0.15 Soil S19-Au25414 Aug 15, 2019	TP082_0.0-0.1 Solid S19-Au25415 Aug 15, 2019	TP082_1.2-1.3 Soil S19-Au25416 Aug 15, 2019	TP162_0.0-0.1 Soil S19-Au25417 Aug 15, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	84
Toluene-d8 (surr.)	1	%	-	-	-	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	70	94	78	-
p-Terphenyl-d14 (surr.)	1	%	62	109	118	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			TP155_0.05-0.15	TP082_0.0-0.1	TP082_1.2-1.3	TP162_0.0-0.1
Sample Matrix			Soil	Solid	Soil	Soil
Eurofins Sample No.			S19-Au25414	S19-Au25415	S19-Au25416	S19-Au25417
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	87	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	-
% Moisture						
	1	%	8.3	71	10	8.1
Heavy Metals						
Arsenic	2	mg/kg	49	< 2	8.3	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	220	< 5	12	-
Copper	5	mg/kg	5.8	< 5	5.1	-
Lead	5	mg/kg	30	< 5	12	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	< 5	< 5	< 5	-
Zinc	5	mg/kg	31	14	19	-

Client Sample ID			TP162_0.2-0.3	TP158_0.0-0.1	TP157_0.0-0.1	TP094_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25418	S19-Au25419	S19-Au25421	S19-Au25422
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50

Client Sample ID			TP162_0.2-0.3	TP158_0.0-0.1	TP157_0.0-0.1	TP094_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25418	S19-Au25419	S19-Au25421	S19-Au25422
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP162_0.2-0.3	TP158_0.0-0.1	TP157_0.0-0.1	TP094_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25418	S19-Au25419	S19-Au25421	S19-Au25422
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	67	-	64
Toluene-d8 (surr.)	1	%	-	69	-	65
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	0.6	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	0.6	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	-	87	107
p-Terphenyl-d14 (surr.)	1	%	83	-	91	117
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID			TP162_0.2-0.3	TP158_0.0-0.1	TP157_0.0-0.1	TP094_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25418	S19-Au25419	S19-Au25421	S19-Au25422
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	56
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	96
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	110	58	-	56
Tetrachloro-m-xylene (surr.)	1	%	69	92	-	96
% Moisture						
	1	%	7.1	22	13	22
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	< 5	< 5
Copper	5	mg/kg	< 5	-	< 5	7.6
Lead	5	mg/kg	< 5	-	51	15
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	36	-	120	390

Client Sample ID			TP094_0.4-0.5	TP156_0.0-0.1	TP156_0.4-0.5	TP105_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25423	S19-Au25424	S19-Au25425	S19-Au25426
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP094_0.4-0.5	TP156_0.0-0.1	TP156_0.4-0.5	TP105_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25423	S19-Au25424	S19-Au25425	S19-Au25426
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	92	-	81
Toluene-d8 (surr.)	1	%	-	94	-	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	104	83	100
p-Terphenyl-d14 (surr.)	1	%	108	103	72	104

Client Sample ID			TP094_0.4-0.5	TP156_0.0-0.1	TP156_0.4-0.5	TP105_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25423	S19-Au25424	S19-Au25425	S19-Au25426
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	57	-	56
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	111
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	57	-	56
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	111
% Moisture						
% Moisture	1	%	9.5	9.7	11	11
Heavy Metals						
Arsenic	2	mg/kg	19	< 2	2.4	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	< 5	6.5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	14	5.6	< 5	8.1
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	14	29	< 5	78

Client Sample ID			TP105_0.4-0.5	TP104_0.0-0.1	TP104_0.2-0.3	TP116_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25427	S19-Au25428	S19-Au25429	S19-Au25430
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP105_0.4-0.5	TP104_0.0-0.1	TP104_0.2-0.3	TP116_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25427	S19-Au25428	S19-Au25429	S19-Au25430
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	86	-	86
Toluene-d8 (surr.)	1	%	-	82	-	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	95	81	82
p-Terphenyl-d14 (surr.)	1	%	103	116	141	87

Client Sample ID			TP105_0.4-0.5	TP104_0.0-0.1	TP104_0.2-0.3	TP116_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25427	S19-Au25428	S19-Au25429	S19-Au25430
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	65	-	112
Tetrachloro-m-xylene (surr.)	1	%	-	97	-	72
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	65	-	112
Tetrachloro-m-xylene (surr.)	1	%	-	97	-	72
% Moisture						
	1	%	9.2	15	10	16
Heavy Metals						
Arsenic	2	mg/kg	5.2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.4	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	6.6	13	< 5	6.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	42	13	< 5	8.9

Client Sample ID			TP127_0.0-0.1	TP106_0.4-0.5	TP117_0.0-0.1	TP126_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25431	S19-Au25503	S19-Au25504	S19-Au25505
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			TP127_0.0-0.1	TP106_0.4-0.5	TP117_0.0-0.1	TP126_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25431	S19-Au25503	S19-Au25504	S19-Au25505
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	89	-	100	-
Toluene-d8 (surr.)	1	%	83	-	108	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	93	74	94	-
p-Terphenyl-d14 (surr.)	1	%	100	70	106	-

Client Sample ID			TP127_0.0-0.1	TP106_0.4-0.5	TP117_0.0-0.1	TP126_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25431	S19-Au25503	S19-Au25504	S19-Au25505
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	56	-	57	60
Tetrachloro-m-xylene (surr.)	1	%	91	-	94	64
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	60
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	64
% Moisture						
	1	%	17	8.3	10	10
Heavy Metals						
Arsenic	2	mg/kg	< 2	51	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	< 5	79	< 5	-
Copper	5	mg/kg	< 5	< 5	< 5	-
Lead	5	mg/kg	8.4	31	5.3	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	< 5	< 5	< 5	-
Zinc	5	mg/kg	< 5	< 5	< 5	-

Client Sample ID			TP126_0.2-0.3	TP128_0.0-0.1	TP129_0.0-0.1	TP118_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25506	S19-Au25507	S19-Au25508	S19-Au25509
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			TP126_0.2-0.3	TP128_0.0-0.1	TP129_0.0-0.1	TP118_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25506	S19-Au25507	S19-Au25508	S19-Au25509
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	84	90	94
Toluene-d8 (surr.)	1	%	-	96	100	104
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	83	69	106	71
p-Terphenyl-d14 (surr.)	1	%	72	69	102	76

Client Sample ID			TP126_0.2-0.3	TP128_0.0-0.1	TP129_0.0-0.1	TP118_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25506	S19-Au25507	S19-Au25508	S19-Au25509
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	62	56	-
Tetrachloro-m-xylene (surr.)	1	%	-	66	96	-
% Moisture	1	%	9.0	13	9.2	4.5
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	6.7
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	9.2	5.2	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	5.2	< 5	< 5	< 5

Client Sample ID			BH091_0.0-0.1	BH102_0.0-0.1	BH114_0.0-0.1	BH113_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25511	S19-Au25512	S19-Au25513	S19-Au25514
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			BH091_0.0-0.1	BH102_0.0-0.1	BH114_0.0-0.1	BH113_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25511	S19-Au25512	S19-Au25513	S19-Au25514
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	111	-	-	102
Toluene-d8 (surr.)	1	%	114	-	-	99
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	64	78	92
p-Terphenyl-d14 (surr.)	1	%	82	69	74	102

Client Sample ID			BH091_0.0-0.1	BH102_0.0-0.1	BH114_0.0-0.1	BH113_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25511	S19-Au25512	S19-Au25513	S19-Au25514
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	63	-	113
Tetrachloro-m-xylene (surr.)	1	%	-	65	-	95
% Moisture	1	%	11	12	13	14
Heavy Metals						
Arsenic	2	mg/kg	2.3	< 2	< 2	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.2	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	6.8	< 5	5.3

Client Sample ID			BH081_0.0-0.1	BH103_0.0-0.1	BH092_0.0-0.1	BH068_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25515	S19-Au25517	S19-Au25518	S19-Au25519
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH081_0.0-0.1	BH103_0.0-0.1	BH092_0.0-0.1	BH068_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25515	S19-Au25517	S19-Au25518	S19-Au25519
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	119	-
Toluene-d8 (surr.)	1	%	-	-	120	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89	88	63	79
p-Terphenyl-d14 (surr.)	1	%	74	103	70	101
% Moisture						
	1	%	5.9	7.8	6.7	3.6

Client Sample ID			BH081_0.0-0.1	BH103_0.0-0.1	BH092_0.0-0.1	BH068_0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25515	S19-Au25517	S19-Au25518	S19-Au25519
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	11
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	7.2	< 5	6.0	< 5

Client Sample ID			BH069_0.0-0.1	BH056_0.0-0.1	BH057_0.4-0.5	BH058_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25520	S19-Au25521	S19-Au25522	S19-Au25523
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	135	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH069_0.0-0.1	BH056_0.0-0.1	BH057_0.4-0.5	BH058_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25520	S19-Au25521	S19-Au25522	S19-Au25523
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	107	79	81	70
p-Terphenyl-d14 (surr.)	1	%	103	79	120	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	60	97	-	75
Tetrachloro-m-xylene (surr.)	1	%	99	69	-	72
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 0.1

Client Sample ID			BH069_0.0-0.1	BH056_0.0-0.1	BH057_0.4-0.5	BH058_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25520	S19-Au25521	S19-Au25522	S19-Au25523
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchloroendate (surr.)	1	%	-	97	-	75
Tetrachloro-m-xylene (surr.)	1	%	-	69	-	72
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	< 10	-	-	-
Organic Matter %	0.01	% w/w	2.8	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.1	-	-	-
% Moisture	1	%	4.3	10	4.6	10
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	7.1	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Iron	20	mg/kg	2700	-	-	-
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	0.84	-	-	-

Client Sample ID			BH078_0.0-0.1	BH078_0.3-0.4	TP132_0.0-0.1	TP099_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25524	S19-Au25525	S19-Au25526	S19-Au25527
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	119	-	-	124
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100

Client Sample ID			BH078_0.0-0.1	BH078_0.3-0.4	TP132_0.0-0.1	TP099_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25524	S19-Au25525	S19-Au25526	S19-Au25527
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	80	-	91	-
p-Terphenyl-d14 (surr.)	1	%	78	-	101	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	98	-	53	71
Tetrachloro-m-xylene (surr.)	1	%	69	-	98	54

Client Sample ID			BH078_0.0-0.1	BH078_0.3-0.4	TP132_0.0-0.1	TP099_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25524	S19-Au25525	S19-Au25526	S19-Au25527
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	< 10	-	-
Organic Matter %	0.01	% w/w	-	3.6	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.1	-	-
% Moisture	1	%	15	7.2	14	4.6
Heavy Metals						
Arsenic	2	mg/kg	5.2	-	17	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	7.3	-	22	-
Copper	5	mg/kg	< 5	-	< 5	-
Iron	20	mg/kg	-	120000	-	-
Lead	5	mg/kg	6.2	-	12	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	< 5	-	< 5	-
Zinc	5	mg/kg	6.8	-	< 5	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	1.6	-	-

Client Sample ID			TP099_0.2-0.3	TP097_0.4-0.5	TP086_0.0-0.1	TP133_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25528	S19-Au25529	S19-Au25530	S19-Au25531
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP099_0.2-0.3	TP097_0.4-0.5	TP086_0.0-0.1	TP133_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25528	S19-Au25529	S19-Au25530	S19-Au25531
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	112	-
Toluene-d8 (surr.)	1	%	-	-	112	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-

Client Sample ID			TP099_0.2-0.3	TP097_0.4-0.5	TP086_0.0-0.1	TP133_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25528	S19-Au25529	S19-Au25530	S19-Au25531
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	107	100	66	84
p-Terphenyl-d14 (surr.)	1	%	94	108	77	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	56	-	96
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	69

Client Sample ID			TP099_0.2-0.3	TP097_0.4-0.5	TP086_0.0-0.1	TP133_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25528	S19-Au25529	S19-Au25530	S19-Au25531
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	56	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	-
% Moisture	1	%	14	12	15	12
Heavy Metals						
Arsenic	2	mg/kg	33	4.0	7.6	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	45	15	23	< 5
Copper	5	mg/kg	< 5	6.5	< 5	< 5
Lead	5	mg/kg	33	20	14	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	8.8	< 5	< 5
Zinc	5	mg/kg	5.9	15	8.8	< 5

Client Sample ID			BH164_0.0-0.1	BH165_0.2-0.3	BH163_0.0-0.1	TP134_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25532	S19-Au25533	S19-Au25534	S19-Au25535
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			BH164_0.0-0.1	BH165_0.2-0.3	BH163_0.0-0.1	TP134_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25532	S19-Au25533	S19-Au25534	S19-Au25535
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	110	103	107	-
Toluene-d8 (surr.)	1	%	115	105	109	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-

Client Sample ID			BH164_0.0-0.1	BH165_0.2-0.3	BH163_0.0-0.1	TP134_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25532	S19-Au25533	S19-Au25534	S19-Au25535
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	68	82	86	90
p-Terphenyl-d14 (surr.)	1	%	77	81	90	83
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	< 1	< 1	< 1	-

Client Sample ID			BH164_0.0-0.1	BH165_0.2-0.3	BH163_0.0-0.1	TP134_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25532	S19-Au25533	S19-Au25534	S19-Au25535
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	71	95	122	-
Tetrachloro-m-xylene (surr.)	1	%	70	69	71	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	71	95	122	-
Tetrachloro-m-xylene (surr.)	1	%	70	69	71	-
% Moisture	1	%	19	6.7	14	9.4
Heavy Metals						
Arsenic	2	mg/kg	2.6	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	< 5	18	< 5
Copper	5	mg/kg	16	< 5	17	< 5
Lead	5	mg/kg	8.1	6.4	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	< 5	21	< 5
Zinc	5	mg/kg	71	110	81	< 5

Client Sample ID			TP136_0.0-0.1	BH109_0.0-0.1	TP131_0.2-0.3	TP120_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25536	S19-Au25537	S19-Au25538	S19-Au25539
Date Sampled			Aug 16, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP136_0.0-0.1	BH109_0.0-0.1	TP131_0.2-0.3	TP120_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25536	S19-Au25537	S19-Au25538	S19-Au25539
Date Sampled			Aug 16, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1,2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1,2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1,2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1,2,3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1,2,4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1,3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1,3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1,3,5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1,4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1,2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1,3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1,2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1,3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP136_0.0-0.1	BH109_0.0-0.1	TP131_0.2-0.3	TP120_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25536	S19-Au25537	S19-Au25538	S19-Au25539
Date Sampled			Aug 16, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	-	-	115	-
Toluene-d8 (surr.)	1	%	-	-	125	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	73	86	85	87
p-Terphenyl-d14 (surr.)	1	%	89	88	81	129
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID			TP136_0.0-0.1	BH109_0.0-0.1	TP131_0.2-0.3	TP120_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25536	S19-Au25537	S19-Au25538	S19-Au25539
Date Sampled			Aug 16, 2019	Aug 15, 2019	Aug 15, 2019	Aug 15, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	109	100	-
Tetrachloro-m-xylene (surr.)	1	%	-	73	74	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	100	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	74	-
% Moisture						
	1	%	7.6	11	8.1	7.7
Heavy Metals						
Arsenic	2	mg/kg	22	< 2	2.3	57
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	< 5	11	56
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	9.3	< 5	10	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP130_0.4-0.5	TP108_0.0-0.1	TP097_0.2-0.3	TP123_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25540	S19-Au25541	S19-Au25542	S19-Au25543
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-

Client Sample ID			TP130_0.4-0.5	TP108_0.0-0.1	TP097_0.2-0.3	TP123_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25540	S19-Au25541	S19-Au25542	S19-Au25543
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			TP130_0.4-0.5	TP108_0.0-0.1	TP097_0.2-0.3	TP123_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25540	S19-Au25541	S19-Au25542	S19-Au25543
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	103	116	-	-
Toluene-d8 (surr.)	1	%	112	116	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81	86	79	82
p-Terphenyl-d14 (surr.)	1	%	117	106	129	84
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID			TP130_0.4-0.5	TP108_0.0-0.1	TP097_0.2-0.3	TP123_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25540	S19-Au25541	S19-Au25542	S19-Au25543
Date Sampled			Aug 15, 2019	Aug 15, 2019	Aug 15, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	1	mg/kg	-	-	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	105
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	73
% Moisture						
	1	%	9.2	8.3	12	11
Heavy Metals						
Arsenic	2	mg/kg	3.5	< 2	4.4	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.9	< 5	20	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	18	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.8	< 5
Zinc	5	mg/kg	< 5	< 5	15	< 5

Client Sample ID			TP112_0.0-0.1	TP101_0.0-0.1	TP090_0.0-0.1	TP089_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25544	S19-Au25545	S19-Au25546	S19-Au25547
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			TP112_0.0-0.1	TP101_0.0-0.1	TP090_0.0-0.1	TP089_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25544	S19-Au25545	S19-Au25546	S19-Au25547
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-

Client Sample ID			TP112_0.0-0.1	TP101_0.0-0.1	TP090_0.0-0.1	TP089_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25544	S19-Au25545	S19-Au25546	S19-Au25547
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	107	-	107	-
Toluene-d8 (surr.)	1	%	115	-	115	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	78	80	79
p-Terphenyl-d14 (surr.)	1	%	116	126	84	84
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4,4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4,4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-

Client Sample ID			TP112_0.0-0.1	TP101_0.0-0.1	TP090_0.0-0.1	TP089_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25544	S19-Au25545	S19-Au25546	S19-Au25547
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloredate (surr.)	1	%	-	-	103	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloredate (surr.)	1	%	-	-	103	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	-
% Moisture						
	1	%	10	8.8	10	11
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	7.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP100_0.0-0.1	TP111_0.0-0.1	TP122_0.0-0.1	TP079_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25548	S19-Au25549	S19-Au25550	S19-Au25551
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			TP100_0.0-0.1	TP111_0.0-0.1	TP122_0.0-0.1	TP079_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25548	S19-Au25549	S19-Au25550	S19-Au25551
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	110	-	108	-
Toluene-d8 (surr.)	1	%	120	-	113	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	67	75	67	76
p-Terphenyl-d14 (surr.)	1	%	71	110	58	132

Client Sample ID			TP100_0.0-0.1	TP111_0.0-0.1	TP122_0.0-0.1	TP079_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au25548	S19-Au25549	S19-Au25550	S19-Au25551
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	62	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	69	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	62	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	69	-	-	-
% Moisture						
	1	%	9.8	8.7	11	7.4
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.4	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	11	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	9.4	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP125_0.0-0.1	TP124_0.0-0.1	TP119_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au25552	S19-Au25553	S19-Au25554
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5

Client Sample ID			TP125_0.0-0.1	TP124_0.0-0.1	TP119_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au25552	S19-Au25553	S19-Au25554
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit			
Volatile Organics					
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	117	-	115
Toluene-d8 (surr.)	1	%	141	-	116
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	69	74
p-Terphenyl-d14 (surr.)	1	%	135	111	93
% Moisture					
	1	%	11	9.9	10

Client Sample ID			TP125_0.0-0.1	TP124_0.0-0.1	TP119_0.0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S19-Au25552	S19-Au25553	S19-Au25554
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	4.7	3.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.5	9.0	< 5
Copper	5	mg/kg	< 5	< 5	< 5
Lead	5	mg/kg	5.1	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5
Zinc	5	mg/kg	< 5	< 5	< 5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	14 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Aug 21, 2019	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 23, 2019	14 Days
Organic Matter % - Method: APHA 2540E Fixed and Volatile Solids Ignited at 550C	Melbourne	Aug 23, 2019	5 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	Aug 21, 2019	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 23, 2019	180 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 21, 2019	180 Days
Eurofins mgt Suite B13			
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Aug 23, 2019	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Aug 23, 2019	28 Days
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Melbourne	Aug 21, 2019	7 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Aug 22, 2019	180 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Aug 17, 2019	14 Days

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
External Laboratory																																
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																											
1	TP110_0.0-0.1	Aug 15, 2019		Soil	S19-Au25372														X						X	X		X				
2	TP121_0.0-0.1	Aug 15, 2019		Soil	S19-Au25373																			X		X						
3	TP121_0.2-0.3	Aug 15, 2019		Soil	S19-Au25374														X							X						
4	BH98_0.0-0.1	Aug 15, 2019		Soil	S19-Au25375														X	X					X	X		X				
5	TP87_0.0-0.1	Aug 15, 2019		Soil	S19-Au25376														X	X					X	X		X				
6	TP76_0.2-0.3	Aug 15, 2019		Soil	S19-Au25377														X							X						
7	TP88_0.0-0.1	Aug 15, 2019		Soil	S19-Au25378																X						X					
8	TP88_0.2-0.3	Aug 15, 2019		Soil	S19-Au25379																X						X					
9	TP72_FRAG01	Aug 15, 2019		Building Materials	S19-Au25380			X											X								X					

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
10	BH59_0.0-0.1	Aug 15, 2019		Soil	S19-Au25381		X												X				X	X	X	X	X	X	X		
11	BH71_0.0-0.1	Aug 15, 2019		Soil	S19-Au25382							X							X	X			X	X	X	X	X	X	X		
12	BH13_0.0-0.1	Aug 15, 2019		Soil	S19-Au25383														X				X	X	X	X	X	X	X		
13	BH37_0.0-0.1	Aug 15, 2019		Soil	S19-Au25384														X				X	X	X	X	X	X	X		
14	BH77_0.0-0.1	Aug 15, 2019		Soil	S19-Au25385		X												X				X	X	X	X	X	X	X		
15	BH80_0.0-0.1	Aug 15, 2019		Soil	S19-Au25386														X	X			X		X						
16	BH65_0.0-0.1	Aug 15, 2019		Soil	S19-Au25387														X				X		X						
17	BH66_0.3-0.4	Aug 15, 2019		Soil	S19-Au25388														X				X		X						
18	BH67_0.0-0.1	Aug 15, 2019		Soil	S19-Au25389														X	X			X		X						
19	TP158_0.9-1.0	Aug 15, 2019		Soil	S19-Au25390														X				X	X	X	X	X	X	X		
20	TP072_0.0-0.1	Aug 15, 2019		Soil	S19-Au25391															X					X						
21	TP072_0.4-0.5	Aug 15, 2019		Soil	S19-Au25392														X				X		X	X	X	X	X		

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Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
22	TP084_0.0-0.1	Aug 15, 2019		Soil	S19-Au25393														X				X								
23	TP159_0.0-0.1	Aug 15, 2019		Soil	S19-Au25394		X												X				X		X			X			
24	TP095_0.0-0.1	Aug 15, 2019		Soil	S19-Au25395														X				X								
25	TP083_0.0-0.1	Aug 15, 2019		Soil	S19-Au25396		X												X				X	X	X		X				
26	TP160_0.4-0.5	Aug 15, 2019		Soil	S19-Au25397														X				X		X						
27	TP073_0.0-0.1	Aug 15, 2019		Soil	S19-Au25398														X				X			X					
28	TP073_0.4-0.5	Aug 15, 2019		Soil	S19-Au25399														X				X			X					
29	TP106_0.0-0.1	Aug 15, 2019		Soil	S19-Au25400														X	X			X			X					
30	TP106_0.2-0.3	Aug 15, 2019		Soil	S19-Au25401														X		X		X			X					
31	TP107_0.0-0.1	Aug 15, 2019		Soil	S19-Au25402														X	X			X			X					
32	TP161_0.0-0.1	Aug 15, 2019		Soil	S19-Au25403		X												X		X		X		X	X		X			
33	TP161_0.4-0.5	Aug 15, 2019		Soil	S19-Au25404														X		X		X			X					

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
34	TP096_0.0-0.1	Aug 15, 2019		Soil	S19-Au25405														X				X								
35	TP085_0.0-0.1	Aug 15, 2019		Soil	S19-Au25406		X												X				X		X			X			
36	TP074_0.0-0.1	Aug 15, 2019		Soil	S19-Au25407														X				X	X	X			X			
37	TP075_0.2-0.3	Aug 15, 2019		Soil	S19-Au25408														X				X		X			X			
38	TP127_0.2-0.3	Aug 15, 2019		Soil	S19-Au25410														X	X			X		X			X			
39	TP093_0.0-0.1	Aug 15, 2019		Soil	S19-Au25411		X												X				X	X	X			X			
40	TP093_0.4-0.5	Aug 15, 2019		Soil	S19-Au25412														X				X		X						
41	TP155_0.0-0.05	Aug 15, 2019		Soil	S19-Au25413		X												X		X				X			X			
42	TP155_0.05-0.15	Aug 15, 2019		Soil	S19-Au25414														X				X			X					
43	TP082_0.0-0.1	Aug 15, 2019		Soil	S19-Au25415		X												X	X			X			X					
44	TP082_1.2-1.3	Aug 15, 2019		Soil	S19-Au25416														X				X			X					

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
45	TP162_0.0-0.1	Aug 15, 2019		Soil	S19-Au25417																				X	X		X			
46	TP162_0.2-0.3	Aug 15, 2019		Soil	S19-Au25418	X													X		X		X			X					
47	TP158_0.0-0.1	Aug 15, 2019		Soil	S19-Au25419	X															X				X	X		X			
48	TP157_0.0-0.1	Aug 15, 2019		Soil	S19-Au25421	X													X				X			X					
49	TP094_0.0-0.1	Aug 15, 2019		Soil	S19-Au25422	X													X				X	X	X	X		X			
50	TP094_0.4-0.5	Aug 15, 2019		Soil	S19-Au25423														X				X			X					
51	TP156_0.0-0.1	Aug 15, 2019		Soil	S19-Au25424	X													X				X	X	X	X		X			
52	TP156_0.4-0.5	Aug 15, 2019		Soil	S19-Au25425														X				X			X					
53	TP105_0.0-0.1	Aug 15, 2019		Soil	S19-Au25426	X													X				X	X	X	X		X			
54	TP105_0.4-0.5	Aug 15, 2019		Soil	S19-Au25427														X				X			X					
55	TP104_0.0-0.1	Aug 15, 2019		Soil	S19-Au25428	X													X				X	X	X	X		X			
56	TP104_0.2-0.3	Aug 15, 2019		Soil	S19-Au25429														X				X			X					

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X			X																					
Brisbane Laboratory - NATA Site # 20794																																	X
Perth Laboratory - NATA Site # 23736																																	
57	TP116_0.0-0.1	Aug 15, 2019		Soil	S19-Au25430													X				X	X	X	X	X	X	X					
58	TP127_0.0-0.1	Aug 15, 2019		Soil	S19-Au25431													X	X			X		X	X	X	X	X					
59	TP106_0.4-0.5	Aug 15, 2019		Soil	S19-Au25503													X				X		X									
60	TP117_0.0-0.1	Aug 15, 2019		Soil	S19-Au25504		X											X	X			X		X	X	X	X						
61	TP126_0.0-0.1	Aug 15, 2019		Soil	S19-Au25505																			X		X							
62	TP126_0.2-0.3	Aug 15, 2019		Soil	S19-Au25506													X				X		X									
63	TP128_0.0-0.1	Aug 15, 2019		Soil	S19-Au25507													X	X			X		X	X	X	X						
64	TP129_0.0-0.1	Aug 15, 2019		Soil	S19-Au25508													X	X			X		X	X	X	X						
65	TP118_0.2-0.3	Aug 15, 2019		Soil	S19-Au25509													X				X		X	X	X	X						
66	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25510							X																					
67	BH091_0.0-0.1	Aug 15, 2019		Soil	S19-Au25511													X				X		X	X	X	X						
68	BH102_0.0-0.1	Aug 15, 2019		Soil	S19-Au25512													X	X			X		X		X							

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
69	BH114_0.0-0.1	Aug 15, 2019		Soil	S19-Au25513														X				X								
70	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25514							X							X	X			X		X			X			
71	BH081_0.0-0.1	Aug 15, 2019		Soil	S19-Au25515														X				X								
72	BH081_0.4-0.5	Aug 15, 2019		Soil	S19-Au25516							X																			
73	BH103_0.0-0.1	Aug 15, 2019		Soil	S19-Au25517														X				X								
74	BH092_0.0-0.1	Aug 15, 2019		Soil	S19-Au25518														X				X		X			X			
75	BH068_0.4-0.5	Aug 15, 2019		Soil	S19-Au25519														X				X								
76	BH069_0.0-0.1	Aug 15, 2019		Soil	S19-Au25520								X			X	X		X	X			X			X	X				
77	BH056_0.0-0.1	Aug 15, 2019		Soil	S19-Au25521														X				X	X	X		X		X		
78	BH057_0.4-0.5	Aug 15, 2019		Soil	S19-Au25522														X				X			X					
79	BH058_0.0-0.1	Aug 15, 2019		Soil	S19-Au25523														X				X		X		X				
80	BH078_0.0-0.1	Aug 15, 2019		Soil	S19-Au25524														X	X			X	X		X		X			

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
81	BH078_0.3-0.4	Aug 15, 2019		Soil	S19-Au25525								X			X	X														
82	TP132_0.0-0.1	Aug 15, 2019		Soil	S19-Au25526							X						X	X				X								
83	TP099_0.0-0.1	Aug 15, 2019		Soil	S19-Au25527		X												X				X								
84	TP099_0.2-0.3	Aug 15, 2019		Soil	S19-Au25528														X				X								
85	TP097_0.4-0.5	Aug 15, 2019		Soil	S19-Au25529														X				X								
86	TP086_0.0-0.1	Aug 15, 2019		Soil	S19-Au25530														X				X		X			X			
87	TP133_0.0-0.1	Aug 16, 2019		Soil	S19-Au25531														X	X			X								
88	BH164_0.0-0.1	Aug 16, 2019		Soil	S19-Au25532		X												X				X		X	X		X			
89	BH165_0.2-0.3	Aug 16, 2019		Soil	S19-Au25533														X				X		X	X		X			
90	BH163_0.0-0.1	Aug 16, 2019		Soil	S19-Au25534		X												X				X		X	X		X			
91	TP134_0.0-0.1	Aug 16, 2019		Soil	S19-Au25535														X				X								
92	TP136_0.0-0.1	Aug 16, 2019		Soil	S19-Au25536														X				X								

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
93	BH109_0.0-0.1	Aug 15, 2019		Soil	S19-Au25537														X	X			X								
94	TP131_0.2-0.3	Aug 15, 2019		Soil	S19-Au25538							X							X				X	X	X			X			
95	TP120_0.2-0.3	Aug 15, 2019		Soil	S19-Au25539														X				X								
96	TP130_0.4-0.5	Aug 15, 2019		Soil	S19-Au25540														X				X	X	X			X			
97	TP108_0.0-0.1	Aug 15, 2019		Soil	S19-Au25541														X				X	X	X			X			
98	TP097_0.2-0.3	Aug 15, 2019		Soil	S19-Au25542														X				X								
99	TP123_0.0-0.1	Aug 16, 2019		Soil	S19-Au25543														X	X			X								
100	TP112_0.0-0.1	Aug 16, 2019		Soil	S19-Au25544														X				X		X	X		X			
101	TP101_0.0-0.1	Aug 16, 2019		Soil	S19-Au25545														X				X								
102	TP090_0.0-0.1	Aug 16, 2019		Soil	S19-Au25546														X				X	X	X			X			
103	TP089_0.0-0.1	Aug 16, 2019		Soil	S19-Au25547														X				X								
104	TP100_0.0-0.1	Aug 16, 2019		Soil	S19-Au25548														X				X	X	X			X			

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
105	TP111_0.0-0.1	Aug 16, 2019		Soil	S19-Au25549														X				X			X						
106	TP122_0.0-0.1	Aug 16, 2019		Soil	S19-Au25550														X				X		X		X					
107	TP079_0.0-0.1	Aug 16, 2019		Soil	S19-Au25551														X				X		X							
108	TP125_0.0-0.1	Aug 16, 2019		Soil	S19-Au25552														X				X		X		X					
109	TP124_0.0-0.1	Aug 16, 2019		Soil	S19-Au25553														X				X		X							
110	TP119_0.0-0.1	Aug 16, 2019		Soil	S19-Au25554														X				X		X		X					
111	RIN05	Aug 16, 2019		Water	S19-Au25555														X				X		X			X				
112	TS	Aug 16, 2019		Water	S19-Au25556																		X									
113	TB	Aug 16, 2019		Water	S19-Au25557																		X									
114	GROUND FRAG01	Aug 16, 2019		Building Materials	S19-Au25558			X																								
115	TP110_0.4-0.5	Aug 15, 2019		Soil	S19-Au25788						X																					

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Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
116	TP121_0.4-0.5	Aug 15, 2019		Soil	S19-Au25789						X																				
117	BH98_0.2-0.3	Aug 15, 2019		Soil	S19-Au25790						X																				
118	BH98_0.4-0.5	Aug 15, 2019		Soil	S19-Au25791						X																				
119	TP87_0.2-0.3	Aug 15, 2019		Soil	S19-Au25792						X																				
120	TP87_0.4-0.5	Aug 15, 2019		Soil	S19-Au25793						X																				
121	TP76_0.0-0.1	Aug 15, 2019		Soil	S19-Au25794						X																				
122	TP76_0.4-0.5	Aug 15, 2019		Soil	S19-Au25795						X																				
123	TP88_0.4-0.5	Aug 15, 2019		Soil	S19-Au25796						X																				
124	BH59_0.3-0.4	Aug 15, 2019		Soil	S19-Au25797						X																				
125	BH71_0.4-0.5	Aug 15, 2019		Soil	S19-Au25798						X																				
126	BH71_0.9-1.0	Aug 15, 2019		Soil	S19-Au25799						X																				
127	BH13_0.3-0.4	Aug 15, 2019		Soil	S19-Au25800						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
128	BH37_0.4-0.5	Aug 15, 2019		Soil	S19-Au25801						X																					
129	BH77_0.4-0.5	Aug 15, 2019		Soil	S19-Au25802						X																					
130	BH80_0.4-0.5	Aug 15, 2019		Soil	S19-Au25803						X																					
131	BH65_0.4-0.5	Aug 15, 2019		Soil	S19-Au25804						X																					
132	BH66_0.0-0.1	Aug 15, 2019		Soil	S19-Au25805						X																					
133	BH67_0.3-0.4	Aug 15, 2019		Soil	S19-Au25806						X																					
134	TP158_1.4-1.5	Aug 15, 2019		Soil	S19-Au25807						X																					
135	TP084_0.4-0.5	Aug 15, 2019		Soil	S19-Au25808						X																					
136	TP159_0.4-0.5	Aug 15, 2019		Soil	S19-Au25809						X																					
137	TP095_0.4-0.5	Aug 15, 2019		Soil	S19-Au25810						X																					
138	TP083_0.4-0.5	Aug 15, 2019		Soil	S19-Au25811						X																					
139	TP083_0.9-1.0	Aug 15, 2019		Soil	S19-Au25812						X																					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
140	TP160_0.0-0.1	Aug 15, 2019		Soil	S19-Au25813						X																				
141	TP107_0.2-0.3	Aug 15, 2019		Soil	S19-Au25814						X																				
142	TP107_0.4-0.5	Aug 15, 2019		Soil	S19-Au25815						X																				
143	TP096_0.2-0.3	Aug 15, 2019		Soil	S19-Au25816						X																				
144	TP096_0.4-0.5	Aug 15, 2019		Soil	S19-Au25817						X																				
145	TP085_0.2-0.3	Aug 15, 2019		Soil	S19-Au25818						X																				
146	TP085_0.4-0.5	Aug 15, 2019		Soil	S19-Au25819						X																				
147	TP074_0.2-0.3	Aug 15, 2019		Soil	S19-Au25820						X																				
148	TP074_0.4-0.5	Aug 15, 2019		Soil	S19-Au25821						X																				
149	TP075_0.0-0.1	Aug 15, 2019		Soil	S19-Au25822						X																				
150	TP075_0.4-0.5	Aug 15, 2019		Soil	S19-Au25823						X																				
151	TP127_0.4-0.5	Aug 15, 2019		Soil	S19-Au25824						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
152	TP093_0.8-0.9	Aug 15, 2019		Soil	S19-Au25825						X																				
153	TP155_0.6-0.7	Aug 15, 2019		Soil	S19-Au25826						X																				
154	TP082_0.4-0.5	Aug 15, 2019		Soil	S19-Au25827						X																				
155	TP082_1.6-1.7	Aug 15, 2019		Soil	S19-Au25828						X																				
156	TP162_0.4-0.5	Aug 15, 2019		Soil	S19-Au25829						X																				
157	TP158_0.4-0.5	Aug 15, 2019		Soil	S19-Au25830						X																				
158	TP157_0.4-0.5	Aug 15, 2019		Soil	S19-Au25832						X																				
159	TP157_0.9-1.0	Aug 15, 2019		Soil	S19-Au25833						X																				
160	TP094_0.9-1.0	Aug 15, 2019		Soil	S19-Au25834						X																				
161	TP156_0.9-1.0	Aug 15, 2019		Soil	S19-Au25835						X																				
162	TP105_0.9-1.0	Aug 15, 2019		Soil	S19-Au25836						X																				
163	TP104_0.4-0.5	Aug 15, 2019		Soil	S19-Au25837				X																						

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
164	TP116_0.4-0.5	Aug 15, 2019		Soil	S19-Au25838						X																				
165	TP116_0.9-1.0	Aug 15, 2019		Soil	S19-Au25839						X																				
166	TP106_0.9-1.0	Aug 15, 2019		Soil	S19-Au25840						X																				
167	TP117_0.2-0.3	Aug 15, 2019		Soil	S19-Au25841						X																				
168	TP117_0.4-0.5	Aug 15, 2019		Soil	S19-Au25842						X																				
169	TP126_0.4-0.5	Aug 15, 2019		Soil	S19-Au25843						X																				
170	TP128_0.2-0.3	Aug 15, 2019		Soil	S19-Au25844						X																				
171	TP128_0.4-0.5	Aug 15, 2019		Soil	S19-Au25845						X																				
172	TP128_0.9-1.0	Aug 15, 2019		Soil	S19-Au25846						X																				
173	TP129_0.2-0.3	Aug 15, 2019		Soil	S19-Au25847						X																				
174	TP129_0.4-0.5	Aug 15, 2019		Soil	S19-Au25848						X																				
175	TP118_0.0-0.1	Aug 15, 2019		Soil	S19-Au25849						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
176	TP118_0.4-0.5	Aug 15, 2019		Soil	S19-Au25850						X																					
177	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25852			X																								
178	BH091_0.4-0.5	Aug 15, 2019		Soil	S19-Au25853						X																					
179	BH102_0.3-0.4	Aug 15, 2019		Soil	S19-Au25854						X																					
180	BH114_0.5-0.6	Aug 15, 2019		Soil	S19-Au25855						X																					
181	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25856		X																									
182	BH103_0.4-0.5	Aug 15, 2019		Soil	S19-Au25857						X																					
183	BH092_0.4-0.5	Aug 15, 2019		Soil	S19-Au25858						X																					
184	BH067_0.5-0.6	Aug 15, 2019		Soil	S19-Au25859						X																					
185	BH068_0.0-0.1	Aug 15, 2019		Soil	S19-Au25860						X																					
186	BH069_0.3-0.4	Aug 15, 2019		Soil	S19-Au25861						X																					
187	BH056_0.3-0.4	Aug 15, 2019		Soil	S19-Au25862						X																					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
188	BH057_0.0-0.1	Aug 15, 2019		Soil	S19-Au25863						X																					
189	BH058_0.3-0.4	Aug 15, 2019		Soil	S19-Au25864						X																					
190	TP132_0.2-0.3	Aug 15, 2019		Soil	S19-Au25865						X																					
191	TP132_0.5-0.6	Aug 15, 2019		Soil	S19-Au25866						X																					
192	TP099_0.4-0.5	Aug 15, 2019		Soil	S19-Au25867						X																					
193	TP097_0.9-1.0	Aug 15, 2019		Soil	S19-Au25868						X																					
194	TP097_1.3-1.4	Aug 15, 2019		Soil	S19-Au25869						X																					
195	TP086_0.4-0.5	Aug 15, 2019		Soil	S19-Au25870						X																					
196	TP133_0.2-0.3	Aug 15, 2019		Soil	S19-Au25871						X																					
197	TP133_0.4-0.5	Aug 15, 2019		Soil	S19-Au25872						X																					
198	BH164_0.2-0.3	Aug 15, 2019		Soil	S19-Au25873						X																					
199	BH165_0.0-0.1	Aug 15, 2019		Soil	S19-Au25874						X																					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
200	BH163_0.2-0.3	Aug 15, 2019		Soil	S19-Au25875						X																				
201	TP134_0.4-0.5	Aug 15, 2019		Soil	S19-Au25876						X																				
202	TP136_0.2-0.3	Aug 15, 2019		Soil	S19-Au25877						X																				
203	BH109_0.2-0.3	Aug 15, 2019		Soil	S19-Au25878						X																				
204	BH109_0.4-0.5	Aug 15, 2019		Soil	S19-Au25879						X																				
205	TP131_0.1-0.2	Aug 15, 2019		Soil	S19-Au25880						X																				
206	TP131_0.4-0.5	Aug 15, 2019		Soil	S19-Au25881						X																				
207	TP131_0.9-1.0	Aug 15, 2019		Soil	S19-Au25882						X																				
208	TP120_0.0-0.1	Aug 15, 2019		Soil	S19-Au25883						X																				
209	TP120_0.4-0.5	Aug 15, 2019		Soil	S19-Au25884						X																				
210	TP130_0.0-0.1	Aug 15, 2019		Soil	S19-Au25885						X																				
211	TP130_0.2-0.3	Aug 15, 2019		Soil	S19-Au25886						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
212	TP130_0.9-1.0	Aug 15, 2019		Soil	S19-Au25887						X																				
213	TP108_0.2-0.3	Aug 15, 2019		Soil	S19-Au25888						X																				
214	TP108_0.4-0.5	Aug 15, 2019		Soil	S19-Au25889						X																				
215	TP097_0.0-0.1	Aug 15, 2019		Soil	S19-Au25890						X																				
216	TP136_0.5-0.6	Aug 16, 2019		Soil	S19-Au25891						X																				
217	TP123_0.2-0.3	Aug 16, 2019		Soil	S19-Au25892						X																				
218	TP123_0.4-0.5	Aug 16, 2019		Soil	S19-Au25893						X																				
219	TP123_0.9-1.0	Aug 16, 2019		Soil	S19-Au25894						X																				
220	TP112_0.2-0.3	Aug 16, 2019		Soil	S19-Au25895						X																				
221	TP112_0.4-0.5	Aug 16, 2019		Soil	S19-Au25896						X																				
222	TP101_0.2-0.3	Aug 16, 2019		Soil	S19-Au25897						X																				
223	TP101_0.4-0.5	Aug 16, 2019		Soil	S19-Au25898						X																				

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
224	TP090_0.2-0.3	Aug 16, 2019		Soil	S19-Au25899						X																				
225	TP090_0.4-0.5	Aug 16, 2019		Soil	S19-Au25900						X																				
226	TP089_0.2-0.3	Aug 16, 2019		Soil	S19-Au25901						X																				
227	TP100_0.2-0.3	Aug 16, 2019		Soil	S19-Au25902						X																				
228	TP100_0.4-0.5	Aug 16, 2019		Soil	S19-Au25903						X																				
229	TP111_0.2-0.3	Aug 16, 2019		Soil	S19-Au25904						X																				
230	TP111_0.4-0.5	Aug 16, 2019		Soil	S19-Au25905						X																				
231	TP111_0.9-1.0	Aug 16, 2019		Soil	S19-Au25906						X																				
232	TP122_0.2-0.3	Aug 16, 2019		Soil	S19-Au25907						X																				
233	TP122_0.4-0.5	Aug 16, 2019		Soil	S19-Au25908						X																				
234	TP079_0.2-0.3	Aug 16, 2019		Soil	S19-Au25909						X																				
235	TP079_0.4-0.5	Aug 16, 2019		Soil	S19-Au25910						X																				

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
	Phone: 02 8245 0300	Priority: 5 Day
	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
236	TP125_0.4-0.5	Aug 16, 2019		Soil	S19-Au25911						X																				
237	TP124_0.4-0.5	Aug 16, 2019		Soil	S19-Au25912						X																				
238	TP119_0.2-0.3	Aug 16, 2019		Soil	S19-Au25913						X																				
239	TP119_0.4-0.5	Aug 16, 2019		Soil	S19-Au25914						X																				
240	TP086_0.2-0.3	Aug 15, 2019		Soil	S19-Au25919							X																			
241	TP104_0.9-1.0	Aug 15, 2019		Soil	S19-Au25920							X																			
242	TP161_0.2-0.3	Aug 15, 2019		Soil	S19-Au25921							X																			
243	SW05	Aug 16, 2019		Water	S19-Au25922	X			X				X	X			X				X	X			X		X	X	X	X	
Test Counts						1	21	2	2	1	127	127	2	1	1	2	2	1	100	24	6	1	101	5	26	48	107	2	51	1	1

Internal Quality Control Review and Glossary
General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	mg/kg	< 20		20	Pass	
TRH C10-C14	mg/kg	< 20		20	Pass	
TRH C15-C28	mg/kg	< 50		50	Pass	
TRH C29-C36	mg/kg	< 50		50	Pass	
Method Blank						
BTEX						
Benzene	mg/kg	< 0.1		0.1	Pass	
Toluene	mg/kg	< 0.1		0.1	Pass	
Ethylbenzene	mg/kg	< 0.1		0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2		0.2	Pass	
o-Xylene	mg/kg	< 0.1		0.1	Pass	
Xylenes - Total	mg/kg	< 0.3		0.3	Pass	
Method Blank						
Volatile Organics						
1.1-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5		0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5		0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5		0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5		0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5		0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5		0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5		0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5		0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5		0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5		0.5	Pass	
Allyl chloride	mg/kg	< 0.5		0.5	Pass	
Benzene	mg/kg	< 0.1		0.1	Pass	
Bromobenzene	mg/kg	< 0.5		0.5	Pass	
Bromochloromethane	mg/kg	< 0.5		0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5		0.5	Pass	
Bromoform	mg/kg	< 0.5		0.5	Pass	
Bromomethane	mg/kg	< 0.5		0.5	Pass	
Carbon disulfide	mg/kg	< 0.5		0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5		0.5	Pass	
Chlorobenzene	mg/kg	< 0.5		0.5	Pass	
Chloroethane	mg/kg	< 0.5		0.5	Pass	
Chloroform	mg/kg	< 0.5		0.5	Pass	
Chloromethane	mg/kg	< 0.5		0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5		0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5		0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5		0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	109			70-130	Pass	
TRH C10-C14	%	127			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	107			70-130	Pass	
Toluene	%	116			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	113			70-130	Pass	
Xylenes - Total	%	109			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	94			70-130	Pass	
1.1.1-Trichloroethane	%	108			70-130	Pass	
1.2-Dichlorobenzene	%	117			70-130	Pass	
1.2-Dichloroethane	%	108			70-130	Pass	
Benzene	%	95			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Toluene	%	97		70-130	Pass	
Trichloroethene	%	102		70-130	Pass	
Xylenes - Total	%	100		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	114		70-130	Pass	
TRH C6-C10	%	114		70-130	Pass	
TRH >C10-C16	%	120		70-130	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	112		70-130	Pass	
Acenaphthylene	%	110		70-130	Pass	
Anthracene	%	95		70-130	Pass	
Benz(a)anthracene	%	114		70-130	Pass	
Benzo(a)pyrene	%	106		70-130	Pass	
Benzo(b&j)fluoranthene	%	74		70-130	Pass	
Benzo(g,h,i)perylene	%	114		70-130	Pass	
Benzo(k)fluoranthene	%	119		70-130	Pass	
Chrysene	%	123		70-130	Pass	
Dibenz(a,h)anthracene	%	112		70-130	Pass	
Fluoranthene	%	128		70-130	Pass	
Fluorene	%	111		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	106		70-130	Pass	
Naphthalene	%	113		70-130	Pass	
Phenanthrene	%	108		70-130	Pass	
Pyrene	%	128		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	92		70-130	Pass	
4,4'-DDD	%	79		70-130	Pass	
4,4'-DDE	%	88		70-130	Pass	
4,4'-DDT	%	84		70-130	Pass	
a-BHC	%	89		70-130	Pass	
Aldrin	%	76		70-130	Pass	
b-BHC	%	73		70-130	Pass	
d-BHC	%	88		70-130	Pass	
Dieldrin	%	86		70-130	Pass	
Endosulfan I	%	85		70-130	Pass	
Endosulfan II	%	78		70-130	Pass	
Endosulfan sulphate	%	74		70-130	Pass	
Endrin	%	82		70-130	Pass	
Endrin aldehyde	%	80		70-130	Pass	
Endrin ketone	%	75		70-130	Pass	
g-BHC (Lindane)	%	83		70-130	Pass	
Heptachlor	%	81		70-130	Pass	
Heptachlor epoxide	%	107		70-130	Pass	
Hexachlorobenzene	%	100		70-130	Pass	
Methoxychlor	%	79		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1260	%	89		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	102		80-120	Pass	

Test				Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Cadmium				%	83		80-120	Pass	
Chromium				%	108		80-120	Pass	
Copper				%	112		80-120	Pass	
Iron				%	119		80-120	Pass	
Lead				%	116		80-120	Pass	
Mercury				%	100		75-125	Pass	
Nickel				%	109		80-120	Pass	
Zinc				%	106		80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons					Result 1				
Acenaphthene	S19-Au25374	CP	%	76			70-130	Pass	
Acenaphthylene	S19-Au25374	CP	%	72			70-130	Pass	
Anthracene	S19-Au25374	CP	%	76			70-130	Pass	
Benz(a)anthracene	S19-Au25374	CP	%	75			70-130	Pass	
Benzo(a)pyrene	S19-Au25374	CP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25374	CP	%	79			70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25374	CP	%	77			70-130	Pass	
Benzo(k)fluoranthene	S19-Au25374	CP	%	88			70-130	Pass	
Chrysene	S19-Au25374	CP	%	81			70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25374	CP	%	76			70-130	Pass	
Fluoranthene	S19-Au25374	CP	%	70			70-130	Pass	
Fluorene	S19-Au25374	CP	%	75			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25374	CP	%	74			70-130	Pass	
Naphthalene	S19-Au25374	CP	%	70			70-130	Pass	
Phenanthrene	S19-Au25374	CP	%	71			70-130	Pass	
Pyrene	S19-Au25374	CP	%	72			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1				
TRH C6-C9	S19-Au25375	CP	%	130			70-130	Pass	
Spike - % Recovery									
BTEX					Result 1				
Benzene	S19-Au25375	CP	%	105			70-130	Pass	
Toluene	S19-Au25375	CP	%	104			70-130	Pass	
Ethylbenzene	S19-Au25375	CP	%	101			70-130	Pass	
m&p-Xylenes	S19-Au25375	CP	%	104			70-130	Pass	
o-Xylene	S19-Au25375	CP	%	118			70-130	Pass	
Xylenes - Total	S19-Au25375	CP	%	108			70-130	Pass	
Spike - % Recovery									
Volatile Organics					Result 1				
1,1-Dichloroethene	S19-Au25375	CP	%	100			70-130	Pass	
1,1,1-Trichloroethane	S19-Au25375	CP	%	102			70-130	Pass	
1,2-Dichlorobenzene	S19-Au25375	CP	%	125			70-130	Pass	
1,2-Dichloroethane	S19-Au25375	CP	%	105			70-130	Pass	
Trichloroethene	S19-Au25375	CP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					Result 1				
Naphthalene	S19-Au25375	CP	%	100			70-130	Pass	
TRH C6-C10	S19-Au25375	CP	%	128			70-130	Pass	
Spike - % Recovery									
Heavy Metals					Result 1				
Arsenic	S19-Au25375	CP	%	100			75-125	Pass	
Cadmium	S19-Au25375	CP	%	84			75-125	Pass	
Chromium	S19-Au25375	CP	%	103			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Copper	S19-Au25375	CP	%	105		75-125	Pass	
Lead	S19-Au25375	CP	%	96		75-125	Pass	
Mercury	S19-Au25375	CP	%	96		70-130	Pass	
Nickel	S19-Au25375	CP	%	101		75-125	Pass	
Zinc	S19-Au25375	CP	%	100		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au25376	CP	%	108		70-130	Pass	
TRH C10-C14	S19-Au25376	CP	%	130		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S19-Au25376	CP	%	107		70-130	Pass	
Toluene	S19-Au25376	CP	%	114		70-130	Pass	
Ethylbenzene	S19-Au25376	CP	%	94		70-130	Pass	
m&p-Xylenes	S19-Au25376	CP	%	96		70-130	Pass	
o-Xylene	S19-Au25376	CP	%	105		70-130	Pass	
Xylenes - Total	S19-Au25376	CP	%	99		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au25376	CP	%	98		70-130	Pass	
1.1.1-Trichloroethane	S19-Au25376	CP	%	111		70-130	Pass	
1.2-Dichlorobenzene	S19-Au25376	CP	%	98		70-130	Pass	
1.2-Dichloroethane	S19-Au25376	CP	%	117		70-130	Pass	
Trichloroethene	S19-Au25376	CP	%	99		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au25376	CP	%	90		70-130	Pass	
TRH C6-C10	S19-Au25376	CP	%	106		70-130	Pass	
TRH >C10-C16	S19-Au25376	CP	%	123		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1260	S19-Au25381	CP	%	100		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au25386	CP	%	89		70-130	Pass	
Acenaphthylene	S19-Au25386	CP	%	89		70-130	Pass	
Anthracene	S19-Au25386	CP	%	86		70-130	Pass	
Benz(a)anthracene	S19-Au25386	CP	%	94		70-130	Pass	
Benzo(a)pyrene	S19-Au25386	CP	%	94		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25386	CP	%	97		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25386	CP	%	85		70-130	Pass	
Benzo(k)fluoranthene	S19-Au25386	CP	%	93		70-130	Pass	
Chrysene	S19-Au25386	CP	%	103		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25386	CP	%	85		70-130	Pass	
Fluoranthene	S19-Au25386	CP	%	98		70-130	Pass	
Fluorene	S19-Au25386	CP	%	93		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25386	CP	%	84		70-130	Pass	
Naphthalene	S19-Au25386	CP	%	94		70-130	Pass	
Phenanthrene	S19-Au25386	CP	%	91		70-130	Pass	
Pyrene	S19-Au25386	CP	%	97		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25387	CP	%	97		75-125	Pass	
Cadmium	S19-Au25387	CP	%	78		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S19-Au25387	CP	%	103		75-125	Pass	
Copper	S19-Au25387	CP	%	106		75-125	Pass	
Iron	S19-Au25387	CP	%	35		75-125	Fail	Q08
Lead	S19-Au25387	CP	%	106		75-125	Pass	
Mercury	S19-Au25387	CP	%	90		70-130	Pass	
Nickel	S19-Au25387	CP	%	102		75-125	Pass	
Zinc	S19-Au25387	CP	%	101		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au25396	CP	%	121		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S19-Au25396	CP	%	97		70-130	Pass	
Toluene	S19-Au25396	CP	%	96		70-130	Pass	
Ethylbenzene	S19-Au25396	CP	%	90		70-130	Pass	
m&p-Xylenes	S19-Au25396	CP	%	91		70-130	Pass	
o-Xylene	S19-Au25396	CP	%	100		70-130	Pass	
Xylenes - Total	S19-Au25396	CP	%	94		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au25396	CP	%	91		70-130	Pass	
1.1.1-Trichloroethane	S19-Au25396	CP	%	93		70-130	Pass	
1.2-Dichlorobenzene	S19-Au25396	CP	%	117		70-130	Pass	
1.2-Dichloroethane	S19-Au25396	CP	%	99		70-130	Pass	
Trichloroethene	S19-Au25396	CP	%	88		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au25396	CP	%	85		70-130	Pass	
TRH C6-C10	S19-Au25396	CP	%	118		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25398	CP	%	107		75-125	Pass	
Cadmium	S19-Au25398	CP	%	91		75-125	Pass	
Chromium	S19-Au25398	CP	%	114		75-125	Pass	
Copper	S19-Au25398	CP	%	117		75-125	Pass	
Lead	S19-Au25398	CP	%	113		75-125	Pass	
Mercury	S19-Au25398	CP	%	103		70-130	Pass	
Nickel	S19-Au25398	CP	%	115		75-125	Pass	
Zinc	S19-Au25398	CP	%	110		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au25403	CP	%	89		70-130	Pass	
TRH C10-C14	S19-Au25403	CP	%	105		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S19-Au25403	CP	%	80		70-130	Pass	
Toluene	S19-Au25403	CP	%	79		70-130	Pass	
Ethylbenzene	S19-Au25403	CP	%	77		70-130	Pass	
m&p-Xylenes	S19-Au25403	CP	%	77		70-130	Pass	
o-Xylene	S19-Au25403	CP	%	84		70-130	Pass	
Xylenes - Total	S19-Au25403	CP	%	80		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au25403	CP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
1.1.1-Trichloroethane	S19-Au25403	CP	%	72		70-130	Pass	
1.2-Dichlorobenzene	S19-Au25403	CP	%	108		70-130	Pass	
1.2-Dichloroethane	S19-Au25403	CP	%	84		70-130	Pass	
Trichloroethene	S19-Au25403	CP	%	72		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au25403	CP	%	78		70-130	Pass	
TRH C6-C10	S19-Au25403	CP	%	87		70-130	Pass	
TRH >C10-C16	S19-Au25403	CP	%	96		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au25407	CP	%	89		70-130	Pass	
Acenaphthylene	S19-Au25407	CP	%	90		70-130	Pass	
Anthracene	S19-Au25407	CP	%	85		70-130	Pass	
Benz(a)anthracene	S19-Au25407	CP	%	83		70-130	Pass	
Benzo(a)pyrene	S19-Au25407	CP	%	86		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25407	CP	%	77		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25407	CP	%	75		70-130	Pass	
Benzo(k)fluoranthene	S19-Au25407	CP	%	83		70-130	Pass	
Chrysene	S19-Au25407	CP	%	91		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25407	CP	%	96		70-130	Pass	
Fluoranthene	S19-Au25407	CP	%	85		70-130	Pass	
Fluorene	S19-Au25407	CP	%	91		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25407	CP	%	87		70-130	Pass	
Naphthalene	S19-Au25407	CP	%	97		70-130	Pass	
Phenanthrene	S19-Au25407	CP	%	83		70-130	Pass	
Pyrene	S19-Au25407	CP	%	86		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1260	S19-Au25408	CP	%	76		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25408	CP	%	68		75-125	Fail	Q08
Cadmium	S19-Au25408	CP	%	91		75-125	Pass	
Chromium	S19-Au25408	CP	%	85		75-125	Pass	
Copper	S19-Au25408	CP	%	86		75-125	Pass	
Lead	S19-Au25408	CP	%	75		75-125	Pass	
Mercury	S19-Au25408	CP	%	103		70-130	Pass	
Nickel	S19-Au25408	CP	%	82		75-125	Pass	
Zinc	S19-Au25408	CP	%	81		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S19-Au25410	CP	%	100		70-130	Pass	
4,4'-DDD	S19-Au25410	CP	%	125		70-130	Pass	
4,4'-DDE	S19-Au25410	CP	%	110		70-130	Pass	
a-BHC	S19-Au25410	CP	%	94		70-130	Pass	
Aldrin	S19-Au25410	CP	%	102		70-130	Pass	
b-BHC	S19-Au25410	CP	%	93		70-130	Pass	
d-BHC	S19-Au25410	CP	%	79		70-130	Pass	
Dieldrin	S19-Au25410	CP	%	112		70-130	Pass	
Endosulfan I	S19-Au25410	CP	%	107		70-130	Pass	
Endosulfan II	S19-Au25410	CP	%	97		70-130	Pass	
Endosulfan sulphate	S19-Au25410	CP	%	77		70-130	Pass	
Endrin	S19-Au25410	CP	%	77		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	S19-Au25410	CP	%	99		70-130	Pass	
Endrin ketone	S19-Au25410	CP	%	79		70-130	Pass	
g-BHC (Lindane)	S19-Au25410	CP	%	86		70-130	Pass	
Heptachlor	S19-Au25410	CP	%	76		70-130	Pass	
Heptachlor epoxide	S19-Au25410	CP	%	92		70-130	Pass	
Hexachlorobenzene	S19-Au25410	CP	%	110		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au25421	CP	%	87		70-130	Pass	
Acenaphthylene	S19-Au25421	CP	%	81		70-130	Pass	
Anthracene	S19-Au25421	CP	%	73		70-130	Pass	
Benz(a)anthracene	S19-Au25421	CP	%	78		70-130	Pass	
Benzo(a)pyrene	S19-Au25421	CP	%	80		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25421	CP	%	83		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25421	CP	%	74		70-130	Pass	
Benzo(k)fluoranthene	S19-Au25421	CP	%	82		70-130	Pass	
Chrysene	S19-Au25421	CP	%	82		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25421	CP	%	79		70-130	Pass	
Fluoranthene	S19-Au25421	CP	%	95		70-130	Pass	
Fluorene	S19-Au25421	CP	%	82		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25421	CP	%	86		70-130	Pass	
Naphthalene	S19-Au25421	CP	%	80		70-130	Pass	
Phenanthrene	S19-Au25421	CP	%	76		70-130	Pass	
Pyrene	S19-Au25421	CP	%	97		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25422	CP	%	100		75-125	Pass	
Cadmium	S19-Au25422	CP	%	88		75-125	Pass	
Chromium	S19-Au25422	CP	%	106		75-125	Pass	
Copper	S19-Au25422	CP	%	106		75-125	Pass	
Iron	S19-Au25422	CP	%	194		75-125	Fail	Q08
Lead	S19-Au25422	CP	%	107		75-125	Pass	
Mercury	S19-Au25422	CP	%	101		70-130	Pass	
Nickel	S19-Au25422	CP	%	104		75-125	Pass	
Zinc	S19-Au25422	CP	%	254		75-125	Fail	Q08
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	S19-Au25426	CP	%	123		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	S19-Au25426	CP	%	116		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au25431	CP	%	95		70-130	Pass	
Acenaphthylene	S19-Au25431	CP	%	96		70-130	Pass	
Anthracene	S19-Au25431	CP	%	85		70-130	Pass	
Benz(a)anthracene	S19-Au25431	CP	%	90		70-130	Pass	
Benzo(a)pyrene	S19-Au25431	CP	%	94		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25431	CP	%	87		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25431	CP	%	75		70-130	Pass	
Benzo(k)fluoranthene	S19-Au25431	CP	%	92		70-130	Pass	
Chrysene	S19-Au25431	CP	%	100		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25431	CP	%	104		70-130	Pass	
Fluoranthene	S19-Au25431	CP	%	93		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S19-Au25431	CP	%	97		70-130	Pass	
Indeno(1.2.3-cd)pyrene	S19-Au25431	CP	%	93		70-130	Pass	
Naphthalene	S19-Au25431	CP	%	97		70-130	Pass	
Phenanthrene	S19-Au25431	CP	%	92		70-130	Pass	
Pyrene	S19-Au25431	CP	%	94		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25503	CP	%	85		75-125	Pass	
Cadmium	S19-Au25503	CP	%	84		75-125	Pass	
Chromium	S19-Au25503	CP	%	85		75-125	Pass	
Copper	S19-Au25503	CP	%	91		75-125	Pass	
Lead	S19-Au25503	CP	%	84		75-125	Pass	
Mercury	S19-Au25503	CP	%	93		70-130	Pass	
Nickel	S19-Au25503	CP	%	94		75-125	Pass	
Zinc	S19-Au25503	CP	%	118		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
4.4'-DDD	S19-Au25505	CP	%	122		70-130	Pass	
4.4'-DDE	S19-Au25505	CP	%	118		70-130	Pass	
a-BHC	S19-Au25505	CP	%	105		70-130	Pass	
Aldrin	S19-Au25505	CP	%	113		70-130	Pass	
b-BHC	S19-Au25505	CP	%	110		70-130	Pass	
d-BHC	S19-Au25505	CP	%	79		70-130	Pass	
Dieldrin	S19-Au25505	CP	%	124		70-130	Pass	
Endosulfan I	S19-Au25505	CP	%	109		70-130	Pass	
Endosulfan II	S19-Au25505	CP	%	95		70-130	Pass	
Endosulfan sulphate	S19-Au25505	CP	%	83		70-130	Pass	
Endrin	S19-Au25505	CP	%	77		70-130	Pass	
Endrin aldehyde	S19-Au25505	CP	%	95		70-130	Pass	
Endrin ketone	S19-Au25505	CP	%	88		70-130	Pass	
g-BHC (Lindane)	S19-Au25505	CP	%	102		70-130	Pass	
Heptachlor	S19-Au25505	CP	%	76		70-130	Pass	
Heptachlor epoxide	S19-Au25505	CP	%	104		70-130	Pass	
Hexachlorobenzene	S19-Au25505	CP	%	130		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1260	S19-Au25505	CP	%	123		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au25513	CP	%	87		70-130	Pass	
Acenaphthylene	S19-Au25513	CP	%	89		70-130	Pass	
Anthracene	S19-Au25513	CP	%	96		70-130	Pass	
Benz(a)anthracene	S19-Au25513	CP	%	90		70-130	Pass	
Benzo(a)pyrene	S19-Au25513	CP	%	77		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25513	CP	%	90		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25513	CP	%	89		70-130	Pass	
Benzo(k)fluoranthene	S19-Au25513	CP	%	79		70-130	Pass	
Chrysene	S19-Au25513	CP	%	99		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25513	CP	%	92		70-130	Pass	
Fluoranthene	S19-Au25513	CP	%	85		70-130	Pass	
Fluorene	S19-Au25513	CP	%	90		70-130	Pass	
Indeno(1.2.3-cd)pyrene	S19-Au25513	CP	%	87		70-130	Pass	
Naphthalene	S19-Au25513	CP	%	84		70-130	Pass	
Phenanthrene	S19-Au25513	CP	%	87		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	S19-Au25513	CP	%	73		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au25514	CP	%	96		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S19-Au25514	CP	%	88		70-130	Pass	
Toluene	S19-Au25514	CP	%	103		70-130	Pass	
Ethylbenzene	S19-Au25514	CP	%	93		70-130	Pass	
m&p-Xylenes	S19-Au25514	CP	%	98		70-130	Pass	
o-Xylene	S19-Au25514	CP	%	102		70-130	Pass	
Xylenes - Total	S19-Au25514	CP	%	99		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au25514	CP	%	109		70-130	Pass	
1.1.1-Trichloroethane	S19-Au25514	CP	%	80		70-130	Pass	
1.2-Dichlorobenzene	S19-Au25514	CP	%	97		70-130	Pass	
1.2-Dichloroethane	S19-Au25514	CP	%	98		70-130	Pass	
Trichloroethene	S19-Au25514	CP	%	81		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au25514	CP	%	93		70-130	Pass	
TRH C6-C10	S19-Au25514	CP	%	97		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25514	CP	%	111		75-125	Pass	
Cadmium	S19-Au25514	CP	%	85		75-125	Pass	
Chromium	S19-Au25514	CP	%	135		75-125	Fail	Q08
Copper	S19-Au25514	CP	%	110		75-125	Pass	
Lead	S19-Au25514	CP	%	117		75-125	Pass	
Mercury	S19-Au25514	CP	%	99		70-130	Pass	
Nickel	S19-Au25514	CP	%	109		75-125	Pass	
Zinc	S19-Au25514	CP	%	104		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C10-C14	S19-Au25518	CP	%	123		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	S19-Au25518	CP	%	116		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25524	CP	%	76		75-125	Pass	
Cadmium	S19-Au25524	CP	%	81		75-125	Pass	
Chromium	S19-Au25524	CP	%	84		75-125	Pass	
Copper	S19-Au25524	CP	%	92		75-125	Pass	
Lead	S19-Au25524	CP	%	93		75-125	Pass	
Mercury	S19-Au25524	CP	%	93		70-130	Pass	
Nickel	S19-Au25524	CP	%	89		75-125	Pass	
Zinc	S19-Au25524	CP	%	88		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S19-Au25536	CP	%	92		70-130	Pass	
Acenaphthylene	S19-Au25536	CP	%	89		70-130	Pass	
Anthracene	S19-Au25536	CP	%	81		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	S19-Au25536	CP	%	92		70-130	Pass	
Benzo(a)pyrene	S19-Au25536	CP	%	84		70-130	Pass	
Benzo(b&j)fluoranthene	S19-Au25536	CP	%	72		70-130	Pass	
Benzo(g,h,i)perylene	S19-Au25536	CP	%	95		70-130	Pass	
Benzo(k)fluoranthene	S19-Au25536	CP	%	84		70-130	Pass	
Chrysene	S19-Au25536	CP	%	98		70-130	Pass	
Dibenz(a,h)anthracene	S19-Au25536	CP	%	95		70-130	Pass	
Fluoranthene	S19-Au25536	CP	%	101		70-130	Pass	
Fluorene	S19-Au25536	CP	%	94		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25536	CP	%	91		70-130	Pass	
Naphthalene	S19-Au25536	CP	%	87		70-130	Pass	
Phenanthrene	S19-Au25536	CP	%	88		70-130	Pass	
Pyrene	S19-Au25536	CP	%	101		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25536	CP	%	85		75-125	Pass	
Cadmium	S19-Au25536	CP	%	92		75-125	Pass	
Chromium	S19-Au25536	CP	%	98		75-125	Pass	
Copper	S19-Au25536	CP	%	107		75-125	Pass	
Lead	S19-Au25536	CP	%	103		75-125	Pass	
Mercury	S19-Au25536	CP	%	105		70-130	Pass	
Nickel	S19-Au25536	CP	%	104		75-125	Pass	
Zinc	S19-Au25536	CP	%	103		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Au25546	CP	%	118		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S19-Au25546	CP	%	90		70-130	Pass	
Toluene	S19-Au25546	CP	%	122		70-130	Pass	
Ethylbenzene	S19-Au25546	CP	%	96		70-130	Pass	
m&p-Xylenes	S19-Au25546	CP	%	101		70-130	Pass	
o-Xylene	S19-Au25546	CP	%	105		70-130	Pass	
Xylenes - Total	S19-Au25546	CP	%	102		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	S19-Au25546	CP	%	121		70-130	Pass	
1.1.1-Trichloroethane	S19-Au25546	CP	%	79		70-130	Pass	
1.2-Dichlorobenzene	S19-Au25546	CP	%	107		70-130	Pass	
1.2-Dichloroethane	S19-Au25546	CP	%	99		70-130	Pass	
Trichloroethene	S19-Au25546	CP	%	81		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Au25546	CP	%	107		70-130	Pass	
TRH C6-C10	S19-Au25546	CP	%	118		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Au25546	CP	%	81		75-125	Pass	
Cadmium	S19-Au25546	CP	%	82		75-125	Pass	
Chromium	S19-Au25546	CP	%	85		75-125	Pass	
Copper	S19-Au25546	CP	%	90		75-125	Pass	
Lead	S19-Au25546	CP	%	92		75-125	Pass	
Mercury	S19-Au25546	CP	%	97		70-130	Pass	
Nickel	S19-Au25546	CP	%	87		75-125	Pass	
Zinc	S19-Au25546	CP	%	86		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S19-Au25372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S19-Au25373	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S19-Au25373	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Heptachlor	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25373	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au23484	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25374	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25374	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25374	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25374	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25374	CP	mg/kg	4600	5400	15	30%	Pass
Lead	S19-Au25374	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25374	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25374	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25374	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au25375	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au25375	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au25375	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au25375	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au25375	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au25375	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Dibenz(a,h)anthracene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25375	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25375	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25375	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25375	CP	mg/kg	11	11	3.0	30%	Pass
Cadmium	S19-Au25375	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25375	CP	mg/kg	22	22	2.0	30%	Pass
Copper	S19-Au25375	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25375	CP	mg/kg	70000	72000	3.0	30%	Pass
Lead	S19-Au25375	CP	mg/kg	22	23	2.0	30%	Pass
Mercury	S19-Au25375	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25375	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25375	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
% Moisture	S19-Au25379	CP	%	27	26	4.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Dibenz(a,h)anthracene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25385	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25385	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25385	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25386	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25386	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25386	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25386	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25386	CP	mg/kg	2300	1900	16	30%	Pass
Lead	S19-Au25386	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25386	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25386	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25386	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25387	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25387	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25387	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25387	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25387	CP	mg/kg	4300	4400	1.0	30%	Pass
Lead	S19-Au25387	CP	mg/kg	5.2	5.2	<1	30%	Pass
Mercury	S19-Au25387	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25387	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25387	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25390	CP	%	9.8	11	10	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au25394	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au25394	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S19-Au25394	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S19-Au25394	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S19-Au25394	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S19-Au25394	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S19-Au25394	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
trans-1,3-Dichloropropene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au25394	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au25394	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au25396	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au25396	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au25396	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au25396	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au25396	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au25396	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25397	CP	mg/kg	4.9	3.2	42	30%	Fail Q15
Cadmium	S19-Au25397	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25397	CP	mg/kg	50	30	50	30%	Fail Q15
Copper	S19-Au25397	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au25397	CP	mg/kg	21	14	44	30%	Fail Q15
Mercury	S19-Au25397	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25397	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25397	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25398	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25398	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25398	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25398	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25398	CP	mg/kg	6300	6300	1.0	30%	Pass
Lead	S19-Au25398	CP	mg/kg	7.5	7.4	1.0	30%	Pass
Mercury	S19-Au25398	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25398	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25398	CP	mg/kg	6.9	7.2	4.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25400	CP	%	9.6	9.4	2.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25407	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25407	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25407	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25407	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25407	CP	mg/kg	4500	5700	23	30%	Pass
Lead	S19-Au25407	CP	mg/kg	15	27	57	30%	Fail Q15
Mercury	S19-Au25407	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25407	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25407	CP	mg/kg	< 5	7.1	49	30%	Fail Q15

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25408	CP	mg/kg	34	35	2.0	30%	Pass
Cadmium	S19-Au25408	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25408	CP	mg/kg	29	29	<1	30%	Pass
Copper	S19-Au25408	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au25408	CP	mg/kg	23	23	1.0	30%	Pass
Mercury	S19-Au25408	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25408	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25408	CP	mg/kg	7.7	8.0	4.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25411	CP	%	15	15	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25418	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25418	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25418	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25421	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25421	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25421	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25421	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25421	CP	mg/kg	4800	4500	7.0	30%	Pass
Lead	S19-Au25421	CP	mg/kg	51	47	9.0	30%	Pass
Mercury	S19-Au25421	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25421	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25421	CP	mg/kg	120	120	1.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au25422	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au25422	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S19-Au25422	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S19-Au25422	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S19-Au25422	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S19-Au25422	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S19-Au25422	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2-Trichloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2,2-Tetrachloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromoethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichlorobenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloropropane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,3-Trichloropropane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,4-Trimethylbenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichlorobenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichloropropane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3,5-Trimethylbenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,4-Dichlorobenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
cis-1.2-Dichloroethene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au25422	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au25422	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25422	CP	%	22	23	1.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25422	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25422	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25422	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25422	CP	mg/kg	7.6	7.8	3.0	30%	Pass
Iron	S19-Au25422	CP	mg/kg	3900	4000	3.0	30%	Pass
Lead	S19-Au25422	CP	mg/kg	15	16	5.0	30%	Pass
Mercury	S19-Au25422	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25422	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25422	CP	mg/kg	390	410	5.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au25424	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au25424	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S19-Au25424	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S19-Au25424	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S19-Au25424	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S19-Au25424	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S19-Au25424	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2-Dichloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au25424	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Dibenz(a,h)anthracene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25424	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25424	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25424	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au25428	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au25428	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au25428	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au25428	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au25428	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au25428	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Naphthalene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25430	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25430	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25503	CP	%	8.3	8.9	6.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25503	CP	mg/kg	51	52	1.0	30%	Pass
Cadmium	S19-Au25503	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25503	CP	mg/kg	79	79	1.0	30%	Pass
Copper	S19-Au25503	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25503	CP	mg/kg	170000	170000	2.0	30%	Pass
Lead	S19-Au25503	CP	mg/kg	31	31	<1	30%	Pass
Mercury	S19-Au25503	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25503	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25503	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Naphthalene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25504	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25504	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25504	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au25511	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au25511	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S19-Au25511	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S19-Au25511	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S19-Au25511	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S19-Au25511	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S19-Au25511	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2-Trichloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2,2-Tetrachloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromoethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichlorobenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloropropane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,3-Trichloropropane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,4-Trimethylbenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichlorobenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichloropropane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3,5-Trimethylbenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,4-Dichlorobenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
2-Butanone (MEK)	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,2-Dichloroethene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,3-Dichloropropene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,2-Dichloroethene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au25511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au25511	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25512	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25512	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S19-Au25512	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25513	CP	%	13	13	3.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25513	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25513	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25513	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25513	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au25513	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25513	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25513	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25513	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au25514	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au25514	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au25514	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au25514	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au25514	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au25514	CP	mg/kg	< 100	< 100	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25514	CP	mg/kg	2.3	2.4	2.0	30%	Pass
Cadmium	S19-Au25514	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25514	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25514	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25514	CP	mg/kg	10000	10000	2.0	30%	Pass
Lead	S19-Au25514	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25514	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25514	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25514	CP	mg/kg	5.3	5.4	2.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	M19-Au25041	NCP	uS/cm	63	67	5.6	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	M19-Au25041	NCP	pH Units	7.6	7.6	pass	30%	Pass
Duplicate								
Cation Exchange Capacity				Result 1	Result 2	RPD		
Cation Exchange Capacity	S19-Au25520	CP	meq/100g	0.84	0.61	32	30%	Fail Q15
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&i)fluoranthene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25522	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25523	CP	%	10	11	1.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25523	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25523	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25523	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25523	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S19-Au25523	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25523	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25523	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25523	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25524	CP	mg/kg	5.2	5.3	2.0	30%	Pass
Cadmium	S19-Au25524	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25524	CP	mg/kg	7.3	7.4	2.0	30%	Pass
Copper	S19-Au25524	CP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Iron	S19-Au25524	CP	mg/kg	14000	15000	2.0	30%	Pass
Lead	S19-Au25524	CP	mg/kg	6.2	6.2	1.0	30%	Pass
Mercury	S19-Au25524	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25524	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25524	CP	mg/kg	6.8	7.0	4.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25526	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25526	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25526	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25531	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25531	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25531	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25531	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25531	CP	mg/kg	3300	3300	1.0	30%	Pass
Lead	S19-Au25531	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25531	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Nickel	S19-Au25531	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25531	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25534	CP	%	14	14	6.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25535	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25536	CP	mg/kg	22	22	1.0	30%	Pass
Cadmium	S19-Au25536	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25536	CP	mg/kg	15	15	<1	30%	Pass
Copper	S19-Au25536	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25536	CP	mg/kg	51000	52000	1.0	30%	Pass
Lead	S19-Au25536	CP	mg/kg	9.3	9.4	1.0	30%	Pass
Mercury	S19-Au25536	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25536	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25536	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Au25540	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	S19-Au25540	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au25540	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au25540	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Au25540	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S19-Au25540	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S19-Au25540	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S19-Au25540	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S19-Au25540	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S19-Au25540	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1.2-Trichloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Au25540	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S19-Au25540	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S19-Au25540	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au25540	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au25540	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au25541	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S19-Au25541	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S19-Au25541	CP	mg/kg	< 50	< 50	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au25541	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S19-Au25541	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S19-Au25541	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au25544	CP	%	10	9.9	3.0	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25545	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25545	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25545	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25545	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25545	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25545	CP	mg/kg	3600	4300	19	30%	Pass
Lead	S19-Au25545	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25545	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25545	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25545	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au25546	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S19-Au25546	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Au25546	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Au25546	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S19-Au25546	CP	mg/kg	5100	5000	2.0	30%	Pass
Lead	S19-Au25546	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S19-Au25546	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Au25546	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Au25546	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(g,h,i)perylene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S19-Au25548	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S19-Au25548	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S19-Au25548	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
% Moisture	S19-Au25554	CP	%	10	10	<1	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)



Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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JBS & G Australia (NSW) P/L
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Sydney
NSW 2000



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Site Number 18217

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 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill

Report 671915-W
 Project name CENTRAL COAST DSI
 Project ID 56387
 Received Date Aug 16, 2019

Client Sample ID			RIN05 Water	TS Water	TB Water	SW05 Water
Sample Matrix			S19-Au25555	S19-Au25556	S19-Au25557	S19-Au25922
Eurofins Sample No.			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	-	-	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	-	-	< 0.05
TRH C15-C28	0.1	mg/L	0.2	-	-	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.2	-	-	< 0.1
BTEX						
Benzene	0.001	mg/L	-	97	< 0.001	-
Toluene	0.001	mg/L	-	120	< 0.001	-
Ethylbenzene	0.001	mg/L	-	110	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	110	< 0.002	-
o-Xylene	0.001	mg/L	-	110	< 0.001	-
Xylenes - Total	0.003	mg/L	-	110	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	80	92	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	< 0.006
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	-	-	< 0.001

Client Sample ID			RIN05	TS	TB	SW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au25555	S19-Au25556	S19-Au25557	S19-Au25922
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	-	-	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Bromoform	0.001	mg/L	< 0.001	-	-	< 0.001
Bromomethane	0.001	mg/L	< 0.001	-	-	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	-	-	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	-	-	< 0.001
Chloroethane	0.001	mg/L	< 0.001	-	-	< 0.001
Chloroform	0.005	mg/L	< 0.005	-	-	< 0.005
Chloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	-	-	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	-	-	< 0.001
Iodomethane	0.001	mg/L	< 0.001	-	-	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	-	-	< 0.001
o-Xylene	0.001	mg/L	< 0.001	-	-	< 0.001
Styrene	0.001	mg/L	< 0.001	-	-	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
Toluene	0.001	mg/L	< 0.001	-	-	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	-	-	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	-	-	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	-	-	< 0.003
Total MAH*	0.003	mg/L	< 0.003	-	-	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	< 0.005
4-Bromofluorobenzene (surr.)	1	%	83	-	-	113
Toluene-d8 (surr.)	1	%	91	-	-	118
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	-	-	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	-	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	0.3	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.3	-	-	< 0.1

Client Sample ID			RIN05 Water	TS Water	TB Water	SW05 Water
Sample Matrix			S19-Au25555	S19-Au25556	S19-Au25557	S19-Au25922
Eurofins Sample No.			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	-	-	-
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Total PAH*	0.001	mg/L	< 0.001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	114	-	-	-
p-Terphenyl-d14 (surr.)	1	%	135	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.001	mg/L	< 0.001	-	-	-
4,4'-DDD	0.0001	mg/L	< 0.0001	-	-	-
4,4'-DDE	0.0001	mg/L	< 0.0001	-	-	-
4,4'-DDT	0.0001	mg/L	< 0.0001	-	-	-
a-BHC	0.0001	mg/L	< 0.0001	-	-	-
Aldrin	0.0001	mg/L	< 0.0001	-	-	-
b-BHC	0.0001	mg/L	< 0.0001	-	-	-
d-BHC	0.0001	mg/L	< 0.0001	-	-	-
Dieldrin	0.0001	mg/L	< 0.0001	-	-	-
Endosulfan I	0.0001	mg/L	< 0.0001	-	-	-
Endosulfan II	0.0001	mg/L	< 0.0001	-	-	-
Endosulfan sulphate	0.0001	mg/L	< 0.0001	-	-	-
Endrin	0.0001	mg/L	< 0.0001	-	-	-
Endrin aldehyde	0.0001	mg/L	< 0.0001	-	-	-
Endrin ketone	0.0001	mg/L	< 0.0001	-	-	-
g-BHC (Lindane)	0.0001	mg/L	< 0.0001	-	-	-
Heptachlor	0.0001	mg/L	< 0.0001	-	-	-
Heptachlor epoxide	0.0001	mg/L	< 0.0001	-	-	-
Hexachlorobenzene	0.0001	mg/L	< 0.0001	-	-	-
Methoxychlor	0.0001	mg/L	< 0.0001	-	-	-
Toxaphene	0.01	mg/L	< 0.01	-	-	-
Aldrin and Dieldrin (Total)*	0.0001	mg/L	< 0.0001	-	-	-
DDT + DDE + DDD (Total)*	0.0001	mg/L	< 0.0001	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.001	mg/L	< 0.001	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.001	mg/L	< 0.001	-	-	-
Dibutylchloroendate (surr.)	1	%	123	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-

Client Sample ID			RIN05	TS	TB	SW05
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au25555	S19-Au25556	S19-Au25557	S19-Au25922
Date Sampled			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.001	mg/L	< 0.001	-	-	-
Aroclor-1221	0.001	mg/L	< 0.001	-	-	-
Aroclor-1232	0.001	mg/L	< 0.001	-	-	-
Aroclor-1242	0.001	mg/L	< 0.001	-	-	-
Aroclor-1248	0.001	mg/L	< 0.001	-	-	-
Aroclor-1254	0.001	mg/L	< 0.001	-	-	-
Aroclor-1260	0.001	mg/L	< 0.001	-	-	-
Total PCB*	0.001	mg/L	< 0.001	-	-	-
Dibutylchloroendate (surr.)	1	%	123	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	-	-	-	< 0.00001
Acenaphthylene	0.00001	mg/L	-	-	-	< 0.00001
Anthracene	0.00001	mg/L	-	-	-	< 0.00001
Benz(a)anthracene	0.00001	mg/L	-	-	-	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	-	-	-	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	-	-	-	< 0.00001
Benzo(g,h,i)perylene	0.00001	mg/L	-	-	-	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	-	-	-	< 0.00001
Chrysene	0.00001	mg/L	-	-	-	< 0.00001
Dibenz(a,h)anthracene	0.00001	mg/L	-	-	-	< 0.00001
Fluoranthene	0.00001	mg/L	-	-	-	< 0.00001
Fluorene	0.00001	mg/L	-	-	-	< 0.00001
Indeno(1,2,3-cd)pyrene	0.00001	mg/L	-	-	-	< 0.00001
Naphthalene	0.00001	mg/L	-	-	-	< 0.00001
Phenanthrene	0.00001	mg/L	-	-	-	< 0.00001
Pyrene	0.00001	mg/L	-	-	-	< 0.00001
Total PAH*	0.00001	mg/L	-	-	-	< 0
2-Fluorobiphenyl (surr.)	1	%	-	-	-	96
p-Terphenyl-d14 (surr.)	1	%	-	-	-	52
Ammonia (as N)						
Ammonia (as N)	0.01	mg/L	-	-	-	0.12
Conductivity (at 25°C)						
Conductivity (at 25°C)	1	uS/cm	-	-	-	850
Nitrate (as N)						
Nitrate (as N)	0.02	mg/L	-	-	-	< 0.02
Nitrite (as N)						
Nitrite (as N)	0.02	mg/L	-	-	-	< 0.02
pH (at 25°C)						
pH (at 25°C)	0.1	pH Units	-	-	-	6.9
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	-	-	-	51
Carbonate Alkalinity (as CaCO3)	10	mg/L	-	-	-	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	-	-	-	< 20
Total Alkalinity (as CaCO3)	20	mg/L	-	-	-	51
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	-	-	0.002
Cadmium	0.0002	mg/L	< 0.0002	-	-	< 0.0002
Chromium	0.001	mg/L	< 0.001	-	-	0.004
Copper	0.001	mg/L	< 0.001	-	-	< 0.001
Lead	0.001	mg/L	< 0.001	-	-	0.004
Mercury	0.0001	mg/L	< 0.0001	-	-	< 0.0001
Nickel	0.001	mg/L	< 0.001	-	-	0.005
Zinc	0.005	mg/L	< 0.005	-	-	0.033

Client Sample ID			RIN05 Water	TS Water	TB Water	SW05 Water
Sample Matrix			S19-Au25555	S19-Au25556	S19-Au25557	S19-Au25922
Eurofins Sample No.			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	-	-	-	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
13C4-PFBA (surr.)	1	%	-	-	-	71
13C5-PFPeA (surr.)	1	%	-	-	-	41
13C5-PFHxA (surr.)	1	%	-	-	-	94
13C4-PFHpA (surr.)	1	%	-	-	-	90
13C8-PFOA (surr.)	1	%	-	-	-	79
13C5-PFNA (surr.)	1	%	-	-	-	84
13C6-PFDA (surr.)	1	%	-	-	-	64
13C2-PFUnDA (surr.)	1	%	-	-	-	71
13C2-PFDoDA (surr.)	1	%	-	-	-	68
13C2-PFTTeDA (surr.)	1	%	-	-	-	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	-	-	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	-	-	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
13C8-FOSA (surr.)	1	%	-	-	-	74
D3-N-MeFOSA (surr.)	1	%	-	-	-	52
D5-N-EtFOSA (surr.)	1	%	-	-	-	53
D7-N-MeFOSE (surr.)	1	%	-	-	-	35
D9-N-EtFOSE (surr.)	1	%	-	-	-	70
D5-N-EtFOSAA (surr.)	1	%	-	-	-	73
D3-N-MeFOSAA (surr.)	1	%	-	-	-	59
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	-	-	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	-	-	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	-	-	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	-	-	-	0.09
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	-	-	-	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	-	-	-	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	-	-	-	< 0.01
13C3-PFBS (surr.)	1	%	-	-	-	93

Client Sample ID			RIN05 Water	TS Water	TB Water	SW05 Water
Sample Matrix			S19-Au25555	S19-Au25556	S19-Au25557	S19-Au25922
Eurofins Sample No.			Aug 16, 2019	Aug 16, 2019	Aug 16, 2019	Aug 16, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
18O2-PFHxS (surr.)	1	%	-	-	-	99
13C8-PFOS (surr.)	1	%	-	-	-	70
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	-	-	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	-	-	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	-	-	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	-	-	92
13C2-6:2 FTSA (surr.)	1	%	-	-	-	74
13C2-8:2 FTSA (surr.)	1	%	-	-	-	67
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	-	-	0.09
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	-	-	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	-	-	0.09
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	-	-	0.09
Sum of PFASs (n=30)*	0.1	ug/L	-	-	-	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	7 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	14 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Aug 21, 2019	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 21, 2019	7 Days
Polycyclic Aromatic Hydrocarbons (Trace level) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)	Melbourne	Aug 21, 2019	7 Days
Ammonia (as N) - Method: LTM-INO-4200 Ammonia by Discrete Analyser	Melbourne	Aug 21, 2019	28 Days
Conductivity (at 25°C) - Method: LTM-INO-4030 Conductivity	Melbourne	Aug 21, 2019	28 Days
Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Aug 21, 2019	28 Days
Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Aug 21, 2019	2 Days
pH (at 25°C) - Method: LTM-GEN-7090 pH in water by ISE	Melbourne	Aug 21, 2019	0 Hours
Alkalinity (speciated) - Method: LTM-INO-4250 Alkalinity by Electrometric Titration	Melbourne	Aug 21, 2019	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 21, 2019	180 Days
Eurofins mgt Suite B13			
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Aug 21, 2019	7 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Aug 21, 2019	7 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 20, 2019	14 Days

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Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
External Laboratory																															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	TP110_0.0-0.1	Aug 15, 2019		Soil	S19-Au25372														X						X	X		X			
2	TP121_0.0-0.1	Aug 15, 2019		Soil	S19-Au25373																			X		X					
3	TP121_0.2-0.3	Aug 15, 2019		Soil	S19-Au25374														X							X					
4	BH98_0.0-0.1	Aug 15, 2019		Soil	S19-Au25375														X	X					X	X		X			
5	TP87_0.0-0.1	Aug 15, 2019		Soil	S19-Au25376														X	X					X	X		X			
6	TP76_0.2-0.3	Aug 15, 2019		Soil	S19-Au25377														X							X					
7	TP88_0.0-0.1	Aug 15, 2019		Soil	S19-Au25378															X							X				
8	TP88_0.2-0.3	Aug 15, 2019		Soil	S19-Au25379														X								X				
9	TP72_FRAG01	Aug 15, 2019		Building Materials	S19-Au25380			X																							

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
10	BH59_0.0-0.1	Aug 15, 2019		Soil	S19-Au25381		X												X				X	X	X	X	X	X	X		
11	BH71_0.0-0.1	Aug 15, 2019		Soil	S19-Au25382							X							X	X			X	X	X	X	X	X	X		
12	BH13_0.0-0.1	Aug 15, 2019		Soil	S19-Au25383														X				X	X	X	X	X	X	X		
13	BH37_0.0-0.1	Aug 15, 2019		Soil	S19-Au25384														X				X	X	X	X	X	X	X		
14	BH77_0.0-0.1	Aug 15, 2019		Soil	S19-Au25385		X												X				X	X	X	X	X	X	X		
15	BH80_0.0-0.1	Aug 15, 2019		Soil	S19-Au25386														X	X			X		X						
16	BH65_0.0-0.1	Aug 15, 2019		Soil	S19-Au25387														X				X		X						
17	BH66_0.3-0.4	Aug 15, 2019		Soil	S19-Au25388														X				X		X						
18	BH67_0.0-0.1	Aug 15, 2019		Soil	S19-Au25389														X	X			X		X						
19	TP158_0.9-1.0	Aug 15, 2019		Soil	S19-Au25390														X				X	X	X	X	X	X	X		
20	TP072_0.0-0.1	Aug 15, 2019		Soil	S19-Au25391															X					X						
21	TP072_0.4-0.5	Aug 15, 2019		Soil	S19-Au25392														X				X		X	X	X	X	X		

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
22	TP084_0.0-0.1	Aug 15, 2019		Soil	S19-Au25393														X				X								
23	TP159_0.0-0.1	Aug 15, 2019		Soil	S19-Au25394		X												X				X		X			X			
24	TP095_0.0-0.1	Aug 15, 2019		Soil	S19-Au25395														X				X								
25	TP083_0.0-0.1	Aug 15, 2019		Soil	S19-Au25396		X												X				X	X	X		X				
26	TP160_0.4-0.5	Aug 15, 2019		Soil	S19-Au25397														X				X		X						
27	TP073_0.0-0.1	Aug 15, 2019		Soil	S19-Au25398														X				X			X					
28	TP073_0.4-0.5	Aug 15, 2019		Soil	S19-Au25399														X				X			X					
29	TP106_0.0-0.1	Aug 15, 2019		Soil	S19-Au25400														X	X			X			X					
30	TP106_0.2-0.3	Aug 15, 2019		Soil	S19-Au25401														X		X		X			X					
31	TP107_0.0-0.1	Aug 15, 2019		Soil	S19-Au25402														X	X			X			X					
32	TP161_0.0-0.1	Aug 15, 2019		Soil	S19-Au25403		X												X		X		X		X	X		X			
33	TP161_0.4-0.5	Aug 15, 2019		Soil	S19-Au25404														X		X		X			X					

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	Fax:	Contact Name: Ryan Lill
Project Name: CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
34	TP096_0.0-0.1	Aug 15, 2019		Soil	S19-Au25405													X				X				X					
35	TP085_0.0-0.1	Aug 15, 2019		Soil	S19-Au25406		X											X				X		X	X	X					
36	TP074_0.0-0.1	Aug 15, 2019		Soil	S19-Au25407													X				X	X	X	X						
37	TP075_0.2-0.3	Aug 15, 2019		Soil	S19-Au25408													X				X		X	X						
38	TP127_0.2-0.3	Aug 15, 2019		Soil	S19-Au25410													X	X			X		X	X						
39	TP093_0.0-0.1	Aug 15, 2019		Soil	S19-Au25411		X											X				X	X	X	X						
40	TP093_0.4-0.5	Aug 15, 2019		Soil	S19-Au25412													X				X			X						
41	TP155_0.0-0.05	Aug 15, 2019		Soil	S19-Au25413		X											X		X		X		X	X						
42	TP155_0.05-0.15	Aug 15, 2019		Soil	S19-Au25414													X				X			X						
43	TP082_0.0-0.1	Aug 15, 2019		Soil	S19-Au25415		X											X	X			X			X						
44	TP082_1.2-1.3	Aug 15, 2019		Soil	S19-Au25416													X				X			X						

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Eurofins Analytical Services Manager : Ursula Long					

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speccated)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
45	TP162_0.0-0.1	Aug 15, 2019		Soil	S19-Au25417																				X	X		X			
46	TP162_0.2-0.3	Aug 15, 2019		Soil	S19-Au25418	X													X		X		X			X					
47	TP158_0.0-0.1	Aug 15, 2019		Soil	S19-Au25419	X															X				X	X		X			
48	TP157_0.0-0.1	Aug 15, 2019		Soil	S19-Au25421	X													X				X			X					
49	TP094_0.0-0.1	Aug 15, 2019		Soil	S19-Au25422	X													X				X	X	X	X		X			
50	TP094_0.4-0.5	Aug 15, 2019		Soil	S19-Au25423														X				X			X					
51	TP156_0.0-0.1	Aug 15, 2019		Soil	S19-Au25424	X													X				X	X	X	X		X			
52	TP156_0.4-0.5	Aug 15, 2019		Soil	S19-Au25425														X				X			X					
53	TP105_0.0-0.1	Aug 15, 2019		Soil	S19-Au25426	X													X				X	X	X	X		X			
54	TP105_0.4-0.5	Aug 15, 2019		Soil	S19-Au25427														X				X			X					
55	TP104_0.0-0.1	Aug 15, 2019		Soil	S19-Au25428	X													X				X	X	X	X		X			
56	TP104_0.2-0.3	Aug 15, 2019		Soil	S19-Au25429														X				X			X					

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
57	TP116_0.0-0.1	Aug 15, 2019		Soil	S19-Au25430														X				X	X	X	X	X	X			
58	TP127_0.0-0.1	Aug 15, 2019		Soil	S19-Au25431														X	X			X		X	X	X				
59	TP106_0.4-0.5	Aug 15, 2019		Soil	S19-Au25503														X				X								
60	TP117_0.0-0.1	Aug 15, 2019		Soil	S19-Au25504		X												X	X			X		X	X	X				
61	TP126_0.0-0.1	Aug 15, 2019		Soil	S19-Au25505																			X		X					
62	TP126_0.2-0.3	Aug 15, 2019		Soil	S19-Au25506														X				X		X						
63	TP128_0.0-0.1	Aug 15, 2019		Soil	S19-Au25507														X	X			X		X	X	X				
64	TP129_0.0-0.1	Aug 15, 2019		Soil	S19-Au25508														X	X			X		X	X	X				
65	TP118_0.2-0.3	Aug 15, 2019		Soil	S19-Au25509														X				X		X	X	X				
66	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25510							X																			
67	BH091_0.0-0.1	Aug 15, 2019		Soil	S19-Au25511														X				X		X	X	X				
68	BH102_0.0-0.1	Aug 15, 2019		Soil	S19-Au25512														X	X			X		X						

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Site B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
69	BH114_0.0-0.1	Aug 15, 2019		Soil	S19-Au25513														X				X								
70	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25514														X	X			X		X		X				
71	BH081_0.0-0.1	Aug 15, 2019		Soil	S19-Au25515														X				X								
72	BH081_0.4-0.5	Aug 15, 2019		Soil	S19-Au25516							X																			
73	BH103_0.0-0.1	Aug 15, 2019		Soil	S19-Au25517														X				X			X					
74	BH092_0.0-0.1	Aug 15, 2019		Soil	S19-Au25518														X				X		X		X				
75	BH068_0.4-0.5	Aug 15, 2019		Soil	S19-Au25519														X				X								
76	BH069_0.0-0.1	Aug 15, 2019		Soil	S19-Au25520								X			X	X		X	X			X			X	X				
77	BH056_0.0-0.1	Aug 15, 2019		Soil	S19-Au25521														X				X	X	X		X		X		
78	BH057_0.4-0.5	Aug 15, 2019		Soil	S19-Au25522														X				X			X					
79	BH058_0.0-0.1	Aug 15, 2019		Soil	S19-Au25523														X				X		X		X				
80	BH078_0.0-0.1	Aug 15, 2019		Soil	S19-Au25524														X	X			X	X		X		X			

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Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail			Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271			X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217				X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																												X	
Perth Laboratory - NATA Site # 23736																													
81	BH078_0.3-0.4	Aug 15, 2019								X			X	X											X	X			
82	TP132_0.0-0.1	Aug 15, 2019														X	X							X					
83	TP099_0.0-0.1	Aug 15, 2019															X					X		X		X			
84	TP099_0.2-0.3	Aug 15, 2019														X								X					
85	TP097_0.4-0.5	Aug 15, 2019														X						X		X					
86	TP086_0.0-0.1	Aug 15, 2019														X							X	X		X			
87	TP133_0.0-0.1	Aug 16, 2019														X	X							X					
88	BH164_0.0-0.1	Aug 16, 2019														X						X	X	X		X			
89	BH165_0.2-0.3	Aug 16, 2019														X						X	X	X		X			
90	BH163_0.0-0.1	Aug 16, 2019														X						X	X	X		X			
91	TP134_0.0-0.1	Aug 16, 2019														X								X					
92	TP136_0.0-0.1	Aug 16, 2019														X								X					

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins mg/L Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
93	BH109_0.0-0.1	Aug 15, 2019		Soil	S19-Au25537														X	X			X								
94	TP131_0.2-0.3	Aug 15, 2019		Soil	S19-Au25538							X							X				X	X	X			X			
95	TP120_0.2-0.3	Aug 15, 2019		Soil	S19-Au25539														X				X								
96	TP130_0.4-0.5	Aug 15, 2019		Soil	S19-Au25540														X				X	X	X		X				
97	TP108_0.0-0.1	Aug 15, 2019		Soil	S19-Au25541														X				X	X	X		X				
98	TP097_0.2-0.3	Aug 15, 2019		Soil	S19-Au25542														X				X								
99	TP123_0.0-0.1	Aug 16, 2019		Soil	S19-Au25543														X	X			X								
100	TP112_0.0-0.1	Aug 16, 2019		Soil	S19-Au25544														X				X		X	X		X			
101	TP101_0.0-0.1	Aug 16, 2019		Soil	S19-Au25545														X				X								
102	TP090_0.0-0.1	Aug 16, 2019		Soil	S19-Au25546														X				X	X	X		X				
103	TP089_0.0-0.1	Aug 16, 2019		Soil	S19-Au25547														X				X								
104	TP100_0.0-0.1	Aug 16, 2019		Soil	S19-Au25548														X				X	X	X		X				

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (speated)	Metals M8	BTEX	Eurofins mgt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)	
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																				
Brisbane Laboratory - NATA Site # 20794																															X	
Perth Laboratory - NATA Site # 23736																																
105	TP111_0.0-0.1	Aug 16, 2019		Soil	S19-Au25549														X				X			X						
106	TP122_0.0-0.1	Aug 16, 2019		Soil	S19-Au25550														X				X		X	X	X					
107	TP079_0.0-0.1	Aug 16, 2019		Soil	S19-Au25551														X				X		X							
108	TP125_0.0-0.1	Aug 16, 2019		Soil	S19-Au25552														X				X		X	X	X					
109	TP124_0.0-0.1	Aug 16, 2019		Soil	S19-Au25553														X				X		X							
110	TP119_0.0-0.1	Aug 16, 2019		Soil	S19-Au25554														X				X		X	X	X					
111	RIN05	Aug 16, 2019		Water	S19-Au25555														X				X		X		X					
112	TS	Aug 16, 2019		Water	S19-Au25556																		X									
113	TB	Aug 16, 2019		Water	S19-Au25557																		X									
114	GROUND FRAG01	Aug 16, 2019		Building Materials	S19-Au25558			X																								
115	TP110_0.4-0.5	Aug 15, 2019		Soil	S19-Au25788						X																					

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Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
116	TP121_0.4-0.5	Aug 15, 2019		Soil	S19-Au25789						X																				
117	BH98_0.2-0.3	Aug 15, 2019		Soil	S19-Au25790						X																				
118	BH98_0.4-0.5	Aug 15, 2019		Soil	S19-Au25791						X																				
119	TP87_0.2-0.3	Aug 15, 2019		Soil	S19-Au25792						X																				
120	TP87_0.4-0.5	Aug 15, 2019		Soil	S19-Au25793						X																				
121	TP76_0.0-0.1	Aug 15, 2019		Soil	S19-Au25794						X																				
122	TP76_0.4-0.5	Aug 15, 2019		Soil	S19-Au25795						X																				
123	TP88_0.4-0.5	Aug 15, 2019		Soil	S19-Au25796						X																				
124	BH59_0.3-0.4	Aug 15, 2019		Soil	S19-Au25797						X																				
125	BH71_0.4-0.5	Aug 15, 2019		Soil	S19-Au25798						X																				
126	BH71_0.9-1.0	Aug 15, 2019		Soil	S19-Au25799						X																				
127	BH13_0.3-0.4	Aug 15, 2019		Soil	S19-Au25800						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
128	BH37_0.4-0.5	Aug 15, 2019		Soil	S19-Au25801						X																				
129	BH77_0.4-0.5	Aug 15, 2019		Soil	S19-Au25802						X																				
130	BH80_0.4-0.5	Aug 15, 2019		Soil	S19-Au25803						X																				
131	BH65_0.4-0.5	Aug 15, 2019		Soil	S19-Au25804						X																				
132	BH66_0.0-0.1	Aug 15, 2019		Soil	S19-Au25805						X																				
133	BH67_0.3-0.4	Aug 15, 2019		Soil	S19-Au25806						X																				
134	TP158_1.4-1.5	Aug 15, 2019		Soil	S19-Au25807						X																				
135	TP084_0.4-0.5	Aug 15, 2019		Soil	S19-Au25808						X																				
136	TP159_0.4-0.5	Aug 15, 2019		Soil	S19-Au25809						X																				
137	TP095_0.4-0.5	Aug 15, 2019		Soil	S19-Au25810						X																				
138	TP083_0.4-0.5	Aug 15, 2019		Soil	S19-Au25811						X																				
139	TP083_0.9-1.0	Aug 15, 2019		Soil	S19-Au25812						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
140	TP160_0.0-0.1	Aug 15, 2019		Soil	S19-Au25813						X																				
141	TP107_0.2-0.3	Aug 15, 2019		Soil	S19-Au25814						X																				
142	TP107_0.4-0.5	Aug 15, 2019		Soil	S19-Au25815						X																				
143	TP096_0.2-0.3	Aug 15, 2019		Soil	S19-Au25816						X																				
144	TP096_0.4-0.5	Aug 15, 2019		Soil	S19-Au25817						X																				
145	TP085_0.2-0.3	Aug 15, 2019		Soil	S19-Au25818						X																				
146	TP085_0.4-0.5	Aug 15, 2019		Soil	S19-Au25819						X																				
147	TP074_0.2-0.3	Aug 15, 2019		Soil	S19-Au25820						X																				
148	TP074_0.4-0.5	Aug 15, 2019		Soil	S19-Au25821						X																				
149	TP075_0.0-0.1	Aug 15, 2019		Soil	S19-Au25822						X																				
150	TP075_0.4-0.5	Aug 15, 2019		Soil	S19-Au25823						X																				
151	TP127_0.4-0.5	Aug 15, 2019		Soil	S19-Au25824						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
152	TP093_0.8-0.9	Aug 15, 2019		Soil	S19-Au25825						X																				
153	TP155_0.6-0.7	Aug 15, 2019		Soil	S19-Au25826						X																				
154	TP082_0.4-0.5	Aug 15, 2019		Soil	S19-Au25827						X																				
155	TP082_1.6-1.7	Aug 15, 2019		Soil	S19-Au25828						X																				
156	TP162_0.4-0.5	Aug 15, 2019		Soil	S19-Au25829						X																				
157	TP158_0.4-0.5	Aug 15, 2019		Soil	S19-Au25830						X																				
158	TP157_0.4-0.5	Aug 15, 2019		Soil	S19-Au25832						X																				
159	TP157_0.9-1.0	Aug 15, 2019		Soil	S19-Au25833						X																				
160	TP094_0.9-1.0	Aug 15, 2019		Soil	S19-Au25834						X																				
161	TP156_0.9-1.0	Aug 15, 2019		Soil	S19-Au25835						X																				
162	TP105_0.9-1.0	Aug 15, 2019		Soil	S19-Au25836						X																				
163	TP104_0.4-0.5	Aug 15, 2019		Soil	S19-Au25837				X																						

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Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X		X																				
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
164	TP116_0.4-0.5	Aug 15, 2019		Soil	S19-Au25838						X																				
165	TP116_0.9-1.0	Aug 15, 2019		Soil	S19-Au25839						X																				
166	TP106_0.9-1.0	Aug 15, 2019		Soil	S19-Au25840						X																				
167	TP117_0.2-0.3	Aug 15, 2019		Soil	S19-Au25841						X																				
168	TP117_0.4-0.5	Aug 15, 2019		Soil	S19-Au25842						X																				
169	TP126_0.4-0.5	Aug 15, 2019		Soil	S19-Au25843						X																				
170	TP128_0.2-0.3	Aug 15, 2019		Soil	S19-Au25844						X																				
171	TP128_0.4-0.5	Aug 15, 2019		Soil	S19-Au25845						X																				
172	TP128_0.9-1.0	Aug 15, 2019		Soil	S19-Au25846						X																				
173	TP129_0.2-0.3	Aug 15, 2019		Soil	S19-Au25847						X																				
174	TP129_0.4-0.5	Aug 15, 2019		Soil	S19-Au25848						X																				
175	TP118_0.0-0.1	Aug 15, 2019		Soil	S19-Au25849						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
176	TP118_0.4-0.5	Aug 15, 2019		Soil	S19-Au25850						X																				
177	BH113_0.3-0.4	Aug 15, 2019		Soil	S19-Au25852			X																							
178	BH091_0.4-0.5	Aug 15, 2019		Soil	S19-Au25853						X																				
179	BH102_0.3-0.4	Aug 15, 2019		Soil	S19-Au25854						X																				
180	BH114_0.5-0.6	Aug 15, 2019		Soil	S19-Au25855						X																				
181	BH113_0.0-0.1	Aug 15, 2019		Soil	S19-Au25856		X																								
182	BH103_0.4-0.5	Aug 15, 2019		Soil	S19-Au25857						X																				
183	BH092_0.4-0.5	Aug 15, 2019		Soil	S19-Au25858						X																				
184	BH067_0.5-0.6	Aug 15, 2019		Soil	S19-Au25859						X																				
185	BH068_0.0-0.1	Aug 15, 2019		Soil	S19-Au25860						X																				
186	BH069_0.3-0.4	Aug 15, 2019		Soil	S19-Au25861						X																				
187	BH056_0.3-0.4	Aug 15, 2019		Soil	S19-Au25862						X																				

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Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)		
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sydney Laboratory - NATA Site # 18217							X	X	X			X																					
Brisbane Laboratory - NATA Site # 20794																																	X
Perth Laboratory - NATA Site # 23736																																	
188	BH057_0.0-0.1	Aug 15, 2019		Soil	S19-Au25863						X																						
189	BH058_0.3-0.4	Aug 15, 2019		Soil	S19-Au25864						X																						
190	TP132_0.2-0.3	Aug 15, 2019		Soil	S19-Au25865						X																						
191	TP132_0.5-0.6	Aug 15, 2019		Soil	S19-Au25866						X																						
192	TP099_0.4-0.5	Aug 15, 2019		Soil	S19-Au25867						X																						
193	TP097_0.9-1.0	Aug 15, 2019		Soil	S19-Au25868						X																						
194	TP097_1.3-1.4	Aug 15, 2019		Soil	S19-Au25869						X																						
195	TP086_0.4-0.5	Aug 15, 2019		Soil	S19-Au25870						X																						
196	TP133_0.2-0.3	Aug 15, 2019		Soil	S19-Au25871						X																						
197	TP133_0.4-0.5	Aug 15, 2019		Soil	S19-Au25872						X																						
198	BH164_0.2-0.3	Aug 15, 2019		Soil	S19-Au25873						X																						
199	BH165_0.0-0.1	Aug 15, 2019		Soil	S19-Au25874						X																						

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 16, 2019 6:10 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 671915	Due: Aug 23, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																														X	
Perth Laboratory - NATA Site # 23736																															
200	BH163_0.2-0.3	Aug 15, 2019		Soil	S19-Au25875						X																				
201	TP134_0.4-0.5	Aug 15, 2019		Soil	S19-Au25876						X																				
202	TP136_0.2-0.3	Aug 15, 2019		Soil	S19-Au25877						X																				
203	BH109_0.2-0.3	Aug 15, 2019		Soil	S19-Au25878						X																				
204	BH109_0.4-0.5	Aug 15, 2019		Soil	S19-Au25879						X																				
205	TP131_0.1-0.2	Aug 15, 2019		Soil	S19-Au25880						X																				
206	TP131_0.4-0.5	Aug 15, 2019		Soil	S19-Au25881						X																				
207	TP131_0.9-1.0	Aug 15, 2019		Soil	S19-Au25882						X																				
208	TP120_0.0-0.1	Aug 15, 2019		Soil	S19-Au25883						X																				
209	TP120_0.4-0.5	Aug 15, 2019		Soil	S19-Au25884						X																				
210	TP130_0.0-0.1	Aug 15, 2019		Soil	S19-Au25885						X																				
211	TP130_0.2-0.3	Aug 15, 2019		Soil	S19-Au25886						X																				

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Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	5 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
212	TP130_0.9-1.0	Aug 15, 2019		Soil	S19-Au25887						X																				
213	TP108_0.2-0.3	Aug 15, 2019		Soil	S19-Au25888						X																				
214	TP108_0.4-0.5	Aug 15, 2019		Soil	S19-Au25889						X																				
215	TP097_0.0-0.1	Aug 15, 2019		Soil	S19-Au25890						X																				
216	TP136_0.5-0.6	Aug 16, 2019		Soil	S19-Au25891						X																				
217	TP123_0.2-0.3	Aug 16, 2019		Soil	S19-Au25892						X																				
218	TP123_0.4-0.5	Aug 16, 2019		Soil	S19-Au25893						X																				
219	TP123_0.9-1.0	Aug 16, 2019		Soil	S19-Au25894						X																				
220	TP112_0.2-0.3	Aug 16, 2019		Soil	S19-Au25895						X																				
221	TP112_0.4-0.5	Aug 16, 2019		Soil	S19-Au25896						X																				
222	TP101_0.2-0.3	Aug 16, 2019		Soil	S19-Au25897						X																				
223	TP101_0.4-0.5	Aug 16, 2019		Soil	S19-Au25898						X																				

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	Conductivity (at 25°C)	HOLD	HOLD	Iron	Nitrate (as N)	Nitrite (as N)	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	pH (at 25°C)	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	Alkalinity (specified)	Metals M8	BTEX	Eurofins Ingt Suite B13	Volatile Organics	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)	Polyyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
224	TP090_0.2-0.3	Aug 16, 2019		Soil	S19-Au25899						X																				
225	TP090_0.4-0.5	Aug 16, 2019		Soil	S19-Au25900						X																				
226	TP089_0.2-0.3	Aug 16, 2019		Soil	S19-Au25901						X																				
227	TP100_0.2-0.3	Aug 16, 2019		Soil	S19-Au25902						X																				
228	TP100_0.4-0.5	Aug 16, 2019		Soil	S19-Au25903						X																				
229	TP111_0.2-0.3	Aug 16, 2019		Soil	S19-Au25904						X																				
230	TP111_0.4-0.5	Aug 16, 2019		Soil	S19-Au25905						X																				
231	TP111_0.9-1.0	Aug 16, 2019		Soil	S19-Au25906						X																				
232	TP122_0.2-0.3	Aug 16, 2019		Soil	S19-Au25907						X																				
233	TP122_0.4-0.5	Aug 16, 2019		Soil	S19-Au25908						X																				
234	TP079_0.2-0.3	Aug 16, 2019		Soil	S19-Au25909						X																				
235	TP079_0.4-0.5	Aug 16, 2019		Soil	S19-Au25910						X																				

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Melbourne Laboratory - NATA Site # 1254 & 14271						X				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217							X	X	X			X																			
Brisbane Laboratory - NATA Site # 20794																															X
Perth Laboratory - NATA Site # 23736																															
236	TP125_0.4-0.5	Aug 16, 2019		Soil	S19-Au25911						X																				
237	TP124_0.4-0.5	Aug 16, 2019		Soil	S19-Au25912						X																				
238	TP119_0.2-0.3	Aug 16, 2019		Soil	S19-Au25913						X																				
239	TP119_0.4-0.5	Aug 16, 2019		Soil	S19-Au25914						X																				
240	TP086_0.2-0.3	Aug 15, 2019		Soil	S19-Au25919							X																			
241	TP104_0.9-1.0	Aug 15, 2019		Soil	S19-Au25920							X																			
242	TP161_0.2-0.3	Aug 15, 2019		Soil	S19-Au25921							X																			
243	SW05	Aug 16, 2019		Water	S19-Au25922	X			X				X	X			X					X	X		X		X	X	X	X	
Test Counts						1	21	2	2	1	127	127	2	1	1	2	2	1	100	24	6	1	101	5	26	48	107	2	51	1	1

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Total PAH*	mg/L	< 0			0.00001	Pass	
Method Blank							
Ammonia (as N)							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Nitrate (as N)							
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)							
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	91			70-130	Pass	
TRH C10-C14	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	100			70-130	Pass	
Xylenes - Total	%	100			70-130	Pass	
LCS - % Recovery							
Volatile Organics							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
1.1-Dichloroethene	%	75			70-130	Pass		
1.1.1-Trichloroethane	%	75			70-130	Pass		
1.2-Dichlorobenzene	%	103			70-130	Pass		
1.2-Dichloroethane	%	79			70-130	Pass		
Trichloroethene	%	83			70-130	Pass		
LCS - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions								
Naphthalene	%	103			70-130	Pass		
TRH C6-C10	%	94			70-130	Pass		
TRH >C10-C16	%	83			70-130	Pass		
LCS - % Recovery								
Ammonia (as N)	%	97			70-130	Pass		
Nitrate (as N)	%	98			70-130	Pass		
Nitrite (as N)	%	111			70-130	Pass		
LCS - % Recovery								
Heavy Metals								
Arsenic	%	101			80-120	Pass		
Cadmium	%	107			80-120	Pass		
Chromium	%	105			80-120	Pass		
Copper	%	97			80-120	Pass		
Lead	%	103			80-120	Pass		
Mercury	%	106			75-125	Pass		
Nickel	%	103			80-120	Pass		
Zinc	%	103			80-120	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals								
				Result 1				
Arsenic	M19-Au27615	NCP	%	108		75-125	Pass	
Cadmium	M19-Au27615	NCP	%	110		75-125	Pass	
Chromium	M19-Au27615	NCP	%	110		75-125	Pass	
Copper	M19-Au27615	NCP	%	106		75-125	Pass	
Lead	M19-Au27615	NCP	%	108		75-125	Pass	
Mercury	M19-Au27615	NCP	%	110		70-130	Pass	
Nickel	M19-Au27615	NCP	%	109		75-125	Pass	
Zinc	M19-Au27615	NCP	%	108		75-125	Pass	
Spike - % Recovery								
				Result 1				
Ammonia (as N)	M19-Au28451	NCP	%	100		70-130	Pass	
Nitrate (as N)	M19-Au28451	NCP	%	94		70-130	Pass	
Nitrite (as N)	M19-Au27973	NCP	%	103		70-130	Pass	
Spike - % Recovery								
				Result 1				
Alkalinity (speciated)								
Bicarbonate Alkalinity (as CaCO ₃)	S19-Au27275	NCP	%	122		70-130	Pass	
Total Alkalinity (as CaCO ₃)	S19-Au27275	NCP	%	122		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions								
				Result 1	Result 2	RPD		
TRH C6-C9	M19-Au24727	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass

Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	M19-Au24727	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total	M19-Au24727	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1-Dichloroethene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1-Trichloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2-Trichloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dibromoethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichlorobenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2-Dichloropropane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.3-Trichloropropane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.2.4-Trimethylbenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichlorobenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3-Dichloropropane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.3.5-Trimethylbenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
1.4-Dichlorobenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Butanone (MEK)	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
2-Propanone (Acetone)	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Chlorotoluene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Allyl chloride	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromobenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromochloromethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromodichloromethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromoform	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Bromomethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon disulfide	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Carbon Tetrachloride	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chlorobenzene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chloroform	M19-Au24727	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Chloromethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.2-Dichloroethene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
cis-1.3-Dichloropropene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromochloromethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibromomethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dichlorodifluoromethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Iodomethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Isopropyl benzene (Cumene)	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Methylene Chloride	M19-Au24727	NCP	mg/L	0.002	0.002	4.0	30%	Pass
Styrene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Tetrachloroethene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.2-Dichloroethene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
trans-1.3-Dichloropropene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichloroethene	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Trichlorofluoromethane	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Vinyl chloride	M19-Au24727	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	M19-Au24727	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	M19-Au24727	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M19-Au27615	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Cadmium	M19-Au27615	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium	M19-Au27615	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper	M19-Au27615	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead	M19-Au27615	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury	M19-Au27615	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	M19-Au27615	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Zinc	M19-Au27615	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Ammonia (as N)	M19-Au22837	NCP	mg/L	37	38	1.0	30%	Pass
Conductivity (at 25°C)	S19-Au26618	NCP	uS/cm	770	770	1.0	30%	Pass
Nitrate (as N)	M19-Au22837	NCP	mg/L	< 0.2	< 0.2	<1	30%	Pass
Nitrite (as N)	M19-Au22837	NCP	mg/L	< 0.2	< 0.2	<1	30%	Pass
pH (at 25°C)	S19-Au26618	NCP	pH Units	7.9	7.9	pass	30%	Pass
Duplicate								
Alkalinity (speciated)				Result 1	Result 2	RPD		
Bicarbonate Alkalinity (as CaCO ₃)	S19-Au26618	NCP	mg/L	350	330	6.0	30%	Pass
Carbonate Alkalinity (as CaCO ₃)	S19-Au26618	NCP	mg/L	< 10	< 10	<1	30%	Pass
Hydroxide Alkalinity (as CaCO ₃)	S19-Au26618	NCP	mg/L	< 20	< 20	<1	30%	Pass
Total Alkalinity (as CaCO ₃)	S19-Au26618	NCP	mg/L	350	330	6.0	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised By

Ursula Long	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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017020

CHAIN OF CUSTODY



PROJECT NO.: 56381					LABORATORY BATCH NO.:									
PROJECT NAME: Dayalson DSI Central Coast DSI					SAMPLERS: MS & RL									
DATE NEEDED BY: STT					QC LEVEL: NEPM (2013)									
PHONE: Sydney: 02 8245 0300 Perth: 08 9488 0100 Brisbane: 07 3112 2688														
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ^{R.H.H.}@jbsg.com.au; (3) ^{M.S.M.H.}@jbsg.com.au J.Cussen@jbsg.com.au														
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:														
					Metals	PAH	TRH/NOCS	EC, PT, alk.	Nitrate/ite	Ammonia	PFAS	BTEX	TYPE OF ASBESTOS ANALYSIS	672129
					IDENTIFICATION	NEPM/WA								
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH								NOTES:	
MW02	Water	19-08-19		1xA 2xV 1xM 1xInorg 1xPFAS		x	x	x	x	x	x			
QCO1_GME				1xA 2xV 1xM 1xInorg 1xPFAS		x	x	x	x	x	x			
MW03				"		x	x	x	x	x	x			
MW05				"		x	x	x	x	x	x			
MW01														
MW04														
MW06														
MW07														
MW08														
Blank01				1x PFAS							x			
TS TB				2xV, 2xV								x		
RIN06				2xV, 1xA, 1xM, 1xInorg		x	x	x	x	x				

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: Ryan Lill	DATE: 19-08-19	CONSIGNMENT NOTE NO.		NAME: Ryan	DATE: 19/08	COOLER SEAL - Yes..... No Intact Broken	
OF: JBS&G		TRANSPORT CO.		OF:	5:29 PM	COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No Intact Broken	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Melbourne

6 Monterey Road
Dandenong South Vic 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Aug 19, 2019 5:29 PM
Eurofins reference: **672129**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
 - Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 9.2 degrees Celsius.
 - All samples have been received as described on the above COC.
 - COC has been completed correctly.
 - Attempt to chill was evident.
 - Appropriately preserved sample containers have been used.
 - All samples were received in good condition.
 - Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
 - Appropriate sample containers have been used.
 - Sample containers for volatile analysis received with zero headspace.
 - Split sample sent to requested external lab.
 - Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlill@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 19, 2019 5:29 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 672129	Due: Aug 26, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25°C)	Polycyclic Aromatic Hydrocarbons	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217																	
Brisbane Laboratory - NATA Site # 20794																	X
Perth Laboratory - NATA Site # 23736																	
External Laboratory																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	MW02	Aug 19, 2019		Water	S19-Au27273	X	X	X	X	X	X	X	X		X	X	X
2	QC01_GME	Aug 19, 2019		Water	S19-Au27274	X	X	X	X	X	X	X	X		X	X	X
3	MW03	Aug 19, 2019		Water	S19-Au27275	X	X	X	X	X	X	X	X		X	X	X
4	MW05	Aug 19, 2019		Water	S19-Au27276	X	X	X	X	X	X	X	X		X	X	X
5	MW01	Aug 19, 2019		Water	S19-Au27277	X	X	X	X	X	X	X	X		X	X	X
6	MW04	Aug 19, 2019		Water	S19-Au27278	X	X	X	X	X	X	X	X		X	X	X
7	MW06	Aug 19, 2019		Water	S19-Au27279	X	X	X	X	X	X	X	X		X	X	X
8	MW07	Aug 19, 2019		Water	S19-Au27280	X	X	X	X	X	X	X	X		X	X	X
9	MW08	Aug 19, 2019		Water	S19-Au27281	X	X	X	X	X	X	X	X		X	X	X

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 19, 2019 5:29 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 672129	Due: Aug 26, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25°C)	Polycyclic Aromatic Hydrocarbons	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217																	
Brisbane Laboratory - NATA Site # 20794																	X
Perth Laboratory - NATA Site # 23736																	
10	BLANK01	Aug 19, 2019		Water	S19-Au27282												X
11	TS	Aug 19, 2019		Water	S19-Au27283									X			
12	TB	Aug 19, 2019		Water	S19-Au27284									X			
13	RINS06	Aug 19, 2019		Water	S19-Au27285	X	X	X	X	X	X	X	X		X	X	
Test Counts						10	10	10	10	10	10	10	10	2	10	10	10

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill

Report 672129-W
 Project name CENTRAL COAST DSI
 Project ID 56387
 Received Date Aug 19, 2019

Client Sample ID			MW02 Water S19-Au27273 Aug 19, 2019	QC01_GME Water S19-Au27274 Aug 19, 2019	MW03 Water S19-Au27275 Aug 19, 2019	MW05 Water S19-Au27276 Aug 19, 2019
Sample Matrix	LOR	Unit				
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	0.06	0.13	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	0.2	0.2	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.26	0.33	< 0.1	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW02 Water S19-Au27273 Aug 19, 2019	QC01_GME Water S19-Au27274 Aug 19, 2019	MW03 Water S19-Au27275 Aug 19, 2019	MW05 Water S19-Au27276 Aug 19, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	122	88	81	84
Toluene-d8 (surr.)	1	%	97	77	72	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.18	0.17	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	0.18	0.17	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	0.2	0.2	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.38	0.37	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW02 Water S19-Au27273 Aug 19, 2019	QC01_GME Water S19-Au27274 Aug 19, 2019	MW03 Water S19-Au27275 Aug 19, 2019	MW05 Water S19-Au27276 Aug 19, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	78	54	62	53
p-Terphenyl-d14 (surr.)	1	%	115	117	104	78
Ammonia (as N)						
Ammonia (as N)	0.01	mg/L	0.09	0.11	< 0.01	< 0.01
Conductivity (at 25°C)						
Conductivity (at 25°C)	1	uS/cm	5700	5600	350	110
Nitrate (as N)						
Nitrate (as N)	0.02	mg/L	< 0.02	< 0.02	4.5	0.50
Nitrite (as N)						
Nitrite (as N)	0.02	mg/L	< 0.02	0.02	0.02	0.04
pH (at 25°C)						
pH (at 25°C)	0.1	pH Units	7.7	7.3	5.7	5.3
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO ₃)	20	mg/L	250	240	< 20	< 20
Carbonate Alkalinity (as CaCO ₃)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO ₃)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO ₃)	20	mg/L	250	240	< 20	< 20
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	< 0.001	0.001	0.002
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.002	0.002	0.002	0.007
Copper	0.001	mg/L	< 0.001	< 0.001	0.003	0.004
Lead	0.001	mg/L	0.001	0.001	0.004	0.004
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.003	0.003	0.002	0.001
Zinc	0.005	mg/L	0.040	0.039	0.026	0.030
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	^{NO9} 0.03	^{NO9} 0.02	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	^{NO9} < 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	101	122	121	115
13C5-PFPeA (surr.)	1	%	71	75	82	85
13C5-PFHxA (surr.)	1	%	93	110	98	104
13C4-PFHpA (surr.)	1	%	102	108	98	102
13C8-PFOA (surr.)	1	%	94	112	108	100
13C5-PFNA (surr.)	1	%	88	107	100	100
13C6-PFDA (surr.)	1	%	106	123	120	111
13C2-PFUnDA (surr.)	1	%	98	106	110	96

Client Sample ID			MW02 Water S19-Au27273 Aug 19, 2019	QC01_GME Water S19-Au27274 Aug 19, 2019	MW03 Water S19-Au27275 Aug 19, 2019	MW05 Water S19-Au27276 Aug 19, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	143	126	134	107
13C2-PFTEdA (surr.)	1	%	134	113	133	103
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	84	89	83	67
D3-N-MeFOSA (surr.)	1	%	85	71	81	57
D5-N-EtFOSA (surr.)	1	%	81	69	92	61
D7-N-MeFOSE (surr.)	1	%	72	75	76	57
D9-N-EtFOSE (surr.)	1	%	82	81	81	63
D5-N-EtFOSAA (surr.)	1	%	84	85	78	71
D3-N-MeFOSAA (surr.)	1	%	66	INT	INT	73
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	^{N09} < 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	143	187	166	170
18O2-PFHxS (surr.)	1	%	119	146	138	139
13C8-PFOS (surr.)	1	%	126	159	151	142
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	83	100	89	110
13C2-6:2 FTSA (surr.)	1	%	100	88	77	95
13C2-8:2 FTSA (surr.)	1	%	62	67	68	63
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			MW01 Water S19-Au27277 Aug 19, 2019	MW04 Water S19-Au27278 Aug 19, 2019	MW06 Water S19-Au27279 Aug 19, 2019	MW07 Water S19-Au27280 Aug 19, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	0.2	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	0.2	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	0.003	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW01 Water S19-Au27277 Aug 19, 2019	MW04 Water S19-Au27278 Aug 19, 2019	MW06 Water S19-Au27279 Aug 19, 2019	MW07 Water S19-Au27280 Aug 19, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	0.004	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	0.004	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	92	75	74	83
Toluene-d8 (surr.)	1	%	79	66	66	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	0.2	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	0.2	< 0.1
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	66	67	60	87
p-Terphenyl-d14 (surr.)	1	%	94	99	97	107
Ammonia (as N)						
Ammonia (as N)	0.01	mg/L	0.08	< 0.01	0.03	< 0.01
Conductivity (at 25°C)						
Conductivity (at 25°C)	1	uS/cm	5100	480	1500	710
Nitrate (as N)						
Nitrate (as N)	0.02	mg/L	< 0.02	0.13	0.03	0.18
Nitrite (as N)						
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	0.03
pH (at 25°C)						
pH (at 25°C)	0.1	pH Units	6.8	5.6	7.2	6.3

Client Sample ID			MW01 Water S19-Au27277 Aug 19, 2019	MW04 Water S19-Au27278 Aug 19, 2019	MW06 Water S19-Au27279 Aug 19, 2019	MW07 Water S19-Au27280 Aug 19, 2019
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO ₃)	20	mg/L	100	23	200	24
Carbonate Alkalinity (as CaCO ₃)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO ₃)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO ₃)	20	mg/L	100	23	200	24
Heavy Metals						
Arsenic	0.001	mg/L	0.001	< 0.001	0.002	0.003
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.003	< 0.001	0.016	0.10
Copper	0.001	mg/L	0.003	< 0.001	0.002	0.022
Lead	0.001	mg/L	0.003	< 0.001	0.002	0.024
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.037	0.002	0.007	0.018
Zinc	0.005	mg/L	0.098	0.007	0.050	0.064
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	^{N09} 0.08	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.04	0.04	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	^{N09} 0.02	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	90	114	74	155
13C5-PFPeA (surr.)	1	%	62	92	87	125
13C5-PFHxA (surr.)	1	%	81	106	57	141
13C4-PFHpA (surr.)	1	%	77	129	114	158
13C8-PFOA (surr.)	1	%	67	117	129	161
13C5-PFNA (surr.)	1	%	59	112	98	INT
13C6-PFDA (surr.)	1	%	62	124	154	158
13C2-PFUnDA (surr.)	1	%	57	101	119	145
13C2-PFDoDA (surr.)	1	%	68	112	143	INT
13C2-PFTeDA (surr.)	1	%	85	104	111	129
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	57	92	96	110
D3-N-MeFOSA (surr.)	1	%	54	31	78	77
D5-N-EtFOSA (surr.)	1	%	55	36	75	84

Client Sample ID			MW01 Water	MW04 Water	MW06 Water	MW07 Water
Sample Matrix			S19-Au27277	S19-Au27278	S19-Au27279	S19-Au27280
Eurofins Sample No.			Aug 19, 2019	Aug 19, 2019	Aug 19, 2019	Aug 19, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D7-N-MeFOSE (surr.)	1	%	42	56	57	87
D9-N-EtFOSE (surr.)	1	%	48	67	73	107
D5-N-EtFOSAA (surr.)	1	%	45	75	145	149
D3-N-MeFOSAA (surr.)	1	%	40	INT	71	INT
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.05	^{N09} 1.4	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.03	^{N09} 0.05	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	126	193	130	178
18O2-PFHxS (surr.)	1	%	93	157	130	169
13C8-PFOS (surr.)	1	%	83	148	151	177
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	59	124	103	136
13C2-6:2 FTSA (surr.)	1	%	48	133	INT	175
13C2-8:2 FTSA (surr.)	1	%	32	67	INT	156
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.08	1.45	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.03	0.07	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.08	1.47	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.22	1.52	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.22	1.52	< 0.1	< 0.1

Client Sample ID			MW08 Water	BLANK01 Water	R20TS Water	TB Water
Sample Matrix			S19-Au27281	S19-Au27282	S19-Au27283	S19-Au27284
Eurofins Sample No.			Aug 19, 2019	Aug 19, 2019	Aug 19, 2019	Aug 19, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	-	-	-
TRH C10-C14	0.05	mg/L	< 0.05	-	-	-
TRH C15-C28	0.1	mg/L	< 0.1	-	-	-
TRH C29-C36	0.1	mg/L	< 0.1	-	-	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-	-	-

Client Sample ID			MW08	BLANK01	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au27281	S19-Au27282	S19-Au27283	S19-Au27284
Date Sampled			Aug 19, 2019	Aug 19, 2019	Aug 19, 2019	Aug 19, 2019
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.001	mg/L	-	-	93	< 0.001
Toluene	0.001	mg/L	-	-	92	< 0.001
Ethylbenzene	0.001	mg/L	-	-	96	< 0.001
m&p-Xylenes	0.002	mg/L	-	-	95	< 0.002
o-Xylene	0.001	mg/L	-	-	100	< 0.001
Xylenes - Total	0.003	mg/L	-	-	97	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	-	111	96
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	-
Allyl chloride	0.001	mg/L	< 0.001	-	-	-
Benzene	0.001	mg/L	< 0.001	-	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	-
Bromoform	0.001	mg/L	< 0.001	-	-	-
Bromomethane	0.001	mg/L	< 0.001	-	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-	-
Chloroethane	0.001	mg/L	< 0.001	-	-	-
Chloroform	0.005	mg/L	< 0.005	-	-	-
Chloromethane	0.001	mg/L	< 0.001	-	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-	-
Iodomethane	0.001	mg/L	< 0.001	-	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			MW08	BLANK01	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au27281	S19-Au27282	S19-Au27283	S19-Au27284
Date Sampled			Aug 19, 2019	Aug 19, 2019	Aug 19, 2019	Aug 19, 2019
Test/Reference	LOR	Unit				
Volatile Organics						
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	-
Methylene Chloride	0.001	mg/L	< 0.001	-	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-	-
Styrene	0.001	mg/L	< 0.001	-	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	-
Toluene	0.001	mg/L	< 0.001	-	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-	-
Vinyl chloride	0.001	mg/L	< 0.001	-	-	-
Xylenes - Total	0.003	mg/L	< 0.003	-	-	-
Total MAH*	0.003	mg/L	< 0.003	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
4-Bromofluorobenzene (surr.)	1	%	108	-	-	-
Toluene-d8 (surr.)	1	%	94	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	-	-	-
TRH C6-C10	0.02	mg/L	< 0.02	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	-	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	-	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	-	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	-	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	-	-	-
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Total PAH*	0.001	mg/L	< 0.001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	78	-	-	-
p-Terphenyl-d14 (surr.)	1	%	115	-	-	-

Client Sample ID			MW08	BLANK01	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S19-Au27281	S19-Au27282	S19-Au27283	S19-Au27284
Date Sampled			Aug 19, 2019	Aug 19, 2019	Aug 19, 2019	Aug 19, 2019
Test/Reference	LOR	Unit				
Ammonia (as N)	0.01	mg/L	< 0.01	-	-	-
Conductivity (at 25°C)	1	uS/cm	950	-	-	-
Nitrate (as N)	0.02	mg/L	0.54	-	-	-
Nitrite (as N)	0.02	mg/L	< 0.02	-	-	-
pH (at 25°C)	0.1	pH Units	5.5	-	-	-
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO ₃)	20	mg/L	< 20	-	-	-
Carbonate Alkalinity (as CaCO ₃)	10	mg/L	< 10	-	-	-
Hydroxide Alkalinity (as CaCO ₃)	20	mg/L	< 20	-	-	-
Total Alkalinity (as CaCO ₃)	20	mg/L	< 20	-	-	-
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	-	-	-
Cadmium	0.0002	mg/L	< 0.0002	-	-	-
Chromium	0.001	mg/L	0.002	-	-	-
Copper	0.001	mg/L	0.002	-	-	-
Lead	0.001	mg/L	0.003	-	-	-
Mercury	0.0001	mg/L	< 0.0001	-	-	-
Nickel	0.001	mg/L	0.003	-	-	-
Zinc	0.005	mg/L	0.034	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
13C4-PFBA (surr.)	1	%	109	126	-	-
13C5-PFPeA (surr.)	1	%	72	96	-	-
13C5-PFHxA (surr.)	1	%	83	101	-	-
13C4-PFHpA (surr.)	1	%	87	90	-	-
13C8-PFOA (surr.)	1	%	78	88	-	-
13C5-PFNA (surr.)	1	%	75	95	-	-
13C6-PFDA (surr.)	1	%	82	INT	-	-
13C2-PFUnDA (surr.)	1	%	71	97	-	-
13C2-PFDoDA (surr.)	1	%	119	105	-	-
13C2-PFTeDA (surr.)	1	%	111	109	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-

Client Sample ID			MW08 Water	BLANK01 Water	R20TS Water	TB Water
Sample Matrix			S19-Au27281	S19-Au27282	S19-Au27283	S19-Au27284
Eurofins Sample No.			Aug 19, 2019	Aug 19, 2019	Aug 19, 2019	Aug 19, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
13C8-FOSA (surr.)	1	%	70	82	-	-
D3-N-MeFOSA (surr.)	1	%	65	63	-	-
D5-N-EtFOSA (surr.)	1	%	76	67	-	-
D7-N-MeFOSE (surr.)	1	%	58	72	-	-
D9-N-EtFOSE (surr.)	1	%	72	83	-	-
D5-N-EtFOSAA (surr.)	1	%	67	73	-	-
D3-N-MeFOSAA (surr.)	1	%	51	INT	-	-
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
13C3-PFBS (surr.)	1	%	138	139	-	-
18O2-PFHxS (surr.)	1	%	109	121	-	-
13C8-PFOS (surr.)	1	%	106	138	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	-	-
13C2-4:2 FTSA (surr.)	1	%	68	88	-	-
13C2-6:2 FTSA (surr.)	1	%	45	58	-	-
13C2-8:2 FTSA (surr.)	1	%	48	54	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	-	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	-	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	-	-

Client Sample ID			RINS06
Sample Matrix			Water
Eurofins Sample No.			S19-Au27285
Date Sampled			Aug 19, 2019
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	0.001
Bromomethane	0.001	mg/L	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.001	mg/L	< 0.001
Chloroform	0.005	mg/L	< 0.005
Chloromethane	0.001	mg/L	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001

Client Sample ID			RINS06
Sample Matrix			Water
Eurofins Sample No.			S19-Au27285
Date Sampled			Aug 19, 2019
Test/Reference	LOR	Unit	
Volatile Organics			
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	95
Toluene-d8 (surr.)	1	%	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene ^{N02}	0.01	mg/L	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	61
p-Terphenyl-d14 (surr.)	1	%	52
Ammonia (as N)			
Ammonia (as N)	0.01	mg/L	< 0.01
Conductivity (at 25°C)			
Conductivity (at 25°C)	1	uS/cm	6.8
Nitrate (as N)			
Nitrate (as N)	0.02	mg/L	< 0.02
Nitrite (as N)			
Nitrite (as N)	0.02	mg/L	< 0.02
pH (at 25°C)			
pH (at 25°C)	0.1	pH Units	5.0

Client Sample ID			RINS06
Sample Matrix			Water
Eurofins Sample No.			S19-Au27285
Date Sampled			Aug 19, 2019
Test/Reference	LOR	Unit	
Alkalinity (speciated)			
Bicarbonate Alkalinity (as CaCO ₃)	20	mg/L	< 20
Carbonate Alkalinity (as CaCO ₃)	10	mg/L	< 10
Hydroxide Alkalinity (as CaCO ₃)	20	mg/L	< 20
Total Alkalinity (as CaCO ₃)	20	mg/L	< 20
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Aug 21, 2019	14 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Aug 21, 2019	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 21, 2019	7 Days
Ammonia (as N) - Method: LTM-INO-4200 Ammonia by Discrete Analyser	Melbourne	Aug 21, 2019	28 Days
Conductivity (at 25°C) - Method: LTM-INO-4030 Conductivity	Melbourne	Aug 21, 2019	28 Days
Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Aug 21, 2019	28 Days
Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Aug 21, 2019	2 Days
pH (at 25°C) - Method: LTM-GEN-7090 pH in water by ISE	Melbourne	Aug 21, 2019	0 Hours
Alkalinity (speciated) - Method: LTM-INO-4250 Alkalinity by Electrometric Titration	Melbourne	Aug 21, 2019	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 22, 2019	180 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 21, 2019	14 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 21, 2019	14 Days
Perfluoroalkyl sulfonic acids (PFSAAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 21, 2019	14 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 21, 2019	14 Days

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 19, 2019 5:29 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 672129	Due: Aug 26, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 5 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25°C)	Polycyclic Aromatic Hydrocarbons	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217																	
Brisbane Laboratory - NATA Site # 20794																	X
Perth Laboratory - NATA Site # 23736																	
External Laboratory																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	MW02	Aug 19, 2019		Water	S19-Au27273	X	X	X	X	X	X	X	X	X	X	X	X
2	QC01_GME	Aug 19, 2019		Water	S19-Au27274	X	X	X	X	X	X	X	X	X	X	X	X
3	MW03	Aug 19, 2019		Water	S19-Au27275	X	X	X	X	X	X	X	X	X	X	X	X
4	MW05	Aug 19, 2019		Water	S19-Au27276	X	X	X	X	X	X	X	X	X	X	X	X
5	MW01	Aug 19, 2019		Water	S19-Au27277	X	X	X	X	X	X	X	X	X	X	X	X
6	MW04	Aug 19, 2019		Water	S19-Au27278	X	X	X	X	X	X	X	X	X	X	X	X
7	MW06	Aug 19, 2019		Water	S19-Au27279	X	X	X	X	X	X	X	X	X	X	X	X
8	MW07	Aug 19, 2019		Water	S19-Au27280	X	X	X	X	X	X	X	X	X	X	X	X
9	MW08	Aug 19, 2019		Water	S19-Au27281	X	X	X	X	X	X	X	X	X	X	X	X

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Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25°C)	Polycyclic Aromatic Hydrocarbons	Alkalinity (specified)	Metals M8	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X	
Sydney Laboratory - NATA Site # 18217																	
Brisbane Laboratory - NATA Site # 20794																	X
Perth Laboratory - NATA Site # 23736																	
10	BLANK01	Aug 19, 2019		Water	S19-Au27282												X
11	TS	Aug 19, 2019		Water	S19-Au27283									X			
12	TB	Aug 19, 2019		Water	S19-Au27284									X			
13	RINS06	Aug 19, 2019		Water	S19-Au27285	X	X	X	X	X	X	X	X		X	X	
Test Counts						10	10	10	10	10	10	10	10	2	10	10	10

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Iodomethane	mg/L	< 0.001		0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001		0.001	Pass	
Methylene Chloride	mg/L	< 0.001		0.001	Pass	
Styrene	mg/L	< 0.001		0.001	Pass	
Tetrachloroethene	mg/L	< 0.001		0.001	Pass	
trans-1,2-Dichloroethene	mg/L	< 0.001		0.001	Pass	
trans-1,3-Dichloropropene	mg/L	< 0.001		0.001	Pass	
Trichloroethene	mg/L	< 0.001		0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001		0.001	Pass	
Vinyl chloride	mg/L	< 0.001		0.001	Pass	
Method Blank						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	mg/L	< 0.01		0.01	Pass	
TRH >C10-C16	mg/L	< 0.05		0.05	Pass	
TRH >C16-C34	mg/L	< 0.1		0.1	Pass	
TRH >C34-C40	mg/L	< 0.1		0.1	Pass	
Method Blank						
Heavy Metals						
Arsenic	mg/L	< 0.001		0.001	Pass	
Cadmium	mg/L	< 0.0002		0.0002	Pass	
Chromium	mg/L	< 0.001		0.001	Pass	
Copper	mg/L	< 0.001		0.001	Pass	
Lead	mg/L	< 0.001		0.001	Pass	
Mercury	mg/L	< 0.0001		0.0001	Pass	
Nickel	mg/L	< 0.001		0.001	Pass	
Zinc	mg/L	< 0.005		0.005	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	%	98		70-130	Pass	
LCS - % Recovery						
BTEX						
Benzene	%	87		70-130	Pass	
Toluene	%	92		70-130	Pass	
Ethylbenzene	%	90		70-130	Pass	
m&p-Xylenes	%	94		70-130	Pass	
Xylenes - Total	%	94		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1,1,1-Trichloroethane	%	72		70-130	Pass	
1,2-Dichlorobenzene	%	89		70-130	Pass	
1,2-Dichloroethane	%	76		70-130	Pass	
Benzene	%	89		70-130	Pass	
Ethylbenzene	%	106		70-130	Pass	
m&p-Xylenes	%	105		70-130	Pass	
Toluene	%	88		70-130	Pass	
Trichloroethene	%	81		70-130	Pass	
Xylenes - Total	%	106		70-130	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene	%	85		70-130	Pass	
TRH C6-C10	%	100		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	97		80-120	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium				%	98			80-120	Pass	
Chromium				%	97			80-120	Pass	
Copper				%	94			80-120	Pass	
Lead				%	96			80-120	Pass	
Mercury				%	97			75-125	Pass	
Nickel				%	100			80-120	Pass	
Zinc				%	100			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Alkalinity (speciated)					Result 1					
Bicarbonate Alkalinity (as CaCO ₃)	S19-Au27275	CP	%	122				70-130	Pass	
Total Alkalinity (as CaCO ₃)	S19-Au27275	CP	%	122				70-130	Pass	
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	S19-Au27281	CP	%	90				75-125	Pass	
Cadmium	S19-Au27281	CP	%	90				75-125	Pass	
Chromium	S19-Au27281	CP	%	90				75-125	Pass	
Copper	S19-Au27281	CP	%	86				75-125	Pass	
Lead	S19-Au27281	CP	%	90				75-125	Pass	
Mercury	S19-Au27281	CP	%	95				70-130	Pass	
Nickel	S19-Au27281	CP	%	94				75-125	Pass	
Zinc	S19-Au27281	CP	%	88				75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Polycyclic Aromatic Hydrocarbons					Result 1	Result 2	RPD			
Benz(a)anthracene	M19-Au25583	NCP	mg/L	< 0.001	< 0.001	<1		30%	Pass	
Duplicate										
				Result 1	Result 2	RPD				
Ammonia (as N)	M19-Au28451	NCP	mg/L	< 0.01	< 0.01	<1		30%	Pass	
Nitrate (as N)	M19-Au28451	NCP	mg/L	0.06	0.06	2.0		30%	Pass	
Nitrite (as N)	M19-Au28451	NCP	mg/L	< 0.02	< 0.02	<1		30%	Pass	
Duplicate										
				Result 1	Result 2	RPD				
Conductivity (at 25°C)	S19-Au27274	CP	uS/cm	5600	5600	1.0		30%	Pass	
pH (at 25°C)	S19-Au27274	CP	pH Units	7.3	7.3	pass		30%	Pass	
Duplicate										
Alkalinity (speciated)					Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO ₃)	S19-Au27274	CP	mg/L	240	240	<1		30%	Pass	
Carbonate Alkalinity (as CaCO ₃)	S19-Au27274	CP	mg/L	< 10	< 10	<1		30%	Pass	
Hydroxide Alkalinity (as CaCO ₃)	S19-Au27274	CP	mg/L	< 20	< 20	<1		30%	Pass	
Total Alkalinity (as CaCO ₃)	S19-Au27274	CP	mg/L	240	240	<1		30%	Pass	
Duplicate										
Perfluoroalkyl carboxylic acids (PFCAs)					Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1		30%	Pass	
Perfluoropentanoic acid (PFPeA)	S19-Au27277	CP	ug/L	0.08	0.08	1.0		30%	Pass	
Perfluorohexanoic acid (PFHxA)	S19-Au27277	CP	ug/L	0.04	0.04	2.0		30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S19-Au27277	CP	ug/L	0.02	0.02	<1		30%	Pass	
Perfluorooctanoic acid (PFOA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1		30%	Pass	
Perfluorononanoic acid (PFNA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1		30%	Pass	
Perfluorodecanoic acid (PFDA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1		30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1		30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1		30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorotridecanoic acid (PFTrDA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S19-Au27277	CP	ug/L	0.05	0.04	12	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S19-Au27277	CP	ug/L	0.03	0.03	10	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-Au27277	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S19-Au27277	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluoroundecanoic acid (PFUnDA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-Au27280	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S19-Au27280	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Au27281	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Cadmium	S19-Au27281	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium	S19-Au27281	CP	mg/L	0.002	0.002	18	30%	Pass
Copper	S19-Au27281	CP	mg/L	0.002	0.002	5.0	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Lead	S19-Au27281	CP	mg/L	0.003	0.002	8.0	30%	Pass
Mercury	S19-Au27281	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	S19-Au27281	CP	mg/L	0.003	0.003	2.0	30%	Pass
Zinc	S19-Au27281	CP	mg/L	0.034	0.033	3.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	M19-Au28421	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S19-Au27285	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH C15-C28	S19-Au27285	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH C29-C36	S19-Au27285	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Au27285	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34	S19-Au27285	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40	S19-Au27285	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Ursula Long

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Thursday, 22 August 2019 10:39 AM
To: Ursula Long
Subject: Further Analysis request on Lab 671628

Follow Up Flag: Follow up
Flag Status: Completed

EXTERNAL EMAIL*

Hi Ursula,

Could I please have SPOCAS sampled from S19-Au23484

Three day TAT please

Thanks,

Ryan



Ryan Lill | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000

T: 02 8245 0300 | M: 0468 771 734 | E: rlill@jbsg.com.au | W: www.jbsg.com.au

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Melbourne

6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney

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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 3 Day
Date/Time received: Aug 22, 2019 11:06 AM
Eurofins reference: **672710**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
 - Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 14 degrees Celsius.
 - All samples have been received as described on the above COC.
 - COC has been completed correctly.
 - Attempt to chill was evident.
 - Appropriately preserved sample containers have been used.
 - All samples were received in good condition.
 - Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
 - Appropriate sample containers have been used.
 - Split sample sent to requested external lab.
 - Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlll@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 22, 2019 11:06 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 672710	Due: Aug 27, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 3 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						SPOCAS Suite	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794						X	X
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH25/MW04 5.5-5.6	Aug 14, 2019		Soil	M19-Au32627	X	X
Test Counts						1	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: **Ryan Lill**

Report **672710-S**
 Project name **CENTRAL COAST DSI**
 Project ID **56387**
 Received Date **Aug 22, 2019**

Client Sample ID			BH25/MW04
Sample Matrix			Soil
Eurofins Sample No.			M19-Au32627
Date Sampled			Aug 14, 2019
Test/Reference	LOR	Unit	
SPOCAS Suite			
pH-KCL	0.1	pH Units	5.0
pH-OX	0.1	pH Units	5.4
Acid trail - Titratable Actual Acidity	2	mol H+/t	21
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	27
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	6.0
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	0.030
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	0.04
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02
Sulfur - KCl Extractable	0.02	% S	< 0.02
Sulfur - Peroxide	0.02	% S	< 0.02
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	< 0.02
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	< 10
HCl Extractable Sulfur Correction Factor	1	factor	2.0
HCl Extractable Sulfur	0.02	% S	n/a
Net Acid soluble sulfur	0.02	% S	n/a
Net Acid soluble sulfur - acidity units	10	mol H+/t	n/a
Net Acid soluble sulfur - equivalent S% pyrite ^{S02}	0.02	% S	n/a
Calcium - KCl Extractable	0.02	% Ca	< 0.02
Calcium - Peroxide	0.02	% Ca	< 0.02
Acid Reacted Calcium	0.02	% Ca	< 0.02
acidity - Acid Reacted Calcium	10	mol H+/t	< 10
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	< 0.02
Magnesium - KCl Extractable	0.02	% Mg	0.03
Magnesium - Peroxide	0.02	% Mg	0.03
Acid Reacted Magnesium	0.02	% Mg	< 0.02
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	n/a
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	n/a
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	n/a
ANC Fineness Factor		factor	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	0.03
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	21
SPOCAS - Liming rate	1	kg CaCO3/t	2.0

Client Sample ID			BH25/MW04
Sample Matrix			5.5-5.6
Eurofins Sample No.			Soil
Date Sampled			M19-Au32627
Test/Reference	LOR	Unit	Aug 14, 2019
Extraneous Material			
<2mm Fraction	0.005	g	26
>2mm Fraction	0.005	g	< 0.005
Analysed Material	0.1	%	100
Extraneous Material	0.1	%	< 0.1
% Moisture			
	1	%	23

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
SPOCAS Suite			
SPOCAS Suite	Brisbane	Aug 23, 2019	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Aug 23, 2019	6 Week
- Method: LTM-GEN-7050/7070			
% Moisture	Brisbane	Aug 22, 2019	14 Days
- Method: LTM-GEN-7080 Moisture			

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 22, 2019 11:06 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 672710	Due: Aug 27, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 3 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						SPOCAS Suite	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794						X	X
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH25/MW04 5.5-5.6	Aug 14, 2019		Soil	M19-Au32627	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
SPOCAS Suite				Result 1	Result 2	RPD			
pH-KCL	S19-Au30885	NCP	pH Units	6.8	6.9	1.0	30%	Pass	
pH-OX	S19-Au30885	NCP	pH Units	2.8	2.8	<1	30%	Pass	
Acid trail - Titratable Actual Acidity	S19-Au30885	NCP	mol H+/t	< 2	< 2	<1	30%	Pass	
Acid trail - Titratable Peroxide Acidity	S19-Au30885	NCP	mol H+/t	430	420	1.0	30%	Pass	
Acid trail - Titratable Sulfidic Acidity	S19-Au30885	NCP	mol H+/t	430	420	1.0	30%	Pass	
sulfidic - TAA equiv. S% pyrite	S19-Au30885	NCP	% pyrite S	< 0.003	< 0.003	<1	30%	Pass	
sulfidic - TPA equiv. S% pyrite	S19-Au30885	NCP	% pyrite S	0.68	0.68	1.0	30%	Pass	
sulfidic - TSA equiv. S% pyrite	S19-Au30885	NCP	% pyrite S	0.68	0.68	1.0	30%	Pass	
Sulfur - KCl Extractable	S19-Au30885	NCP	% S	0.18	0.19	2.0	30%	Pass	
Sulfur - Peroxide	S19-Au30885	NCP	% S	1.2	1.2	3.0	30%	Pass	
Sulfur - Peroxide Oxidisable Sulfur	S19-Au30885	NCP	% S	1.0	1.0	3.0	30%	Pass	
acidity - Peroxide Oxidisable Sulfur	S19-Au30885	NCP	mol H+/t	630	650	3.0	30%	Pass	
HCl Extractable Sulfur	S19-Au30885	NCP	% S	n/a	n/a	n/a	30%	Pass	
Net Acid soluble sulfur	S19-Au30885	NCP	% S	n/a	n/a	n/a	30%	Pass	
Net Acid soluble sulfur - acidity units	S19-Au30885	NCP	mol H+/t	n/a	n/a	n/a	30%	Pass	
Net Acid soluble sulfur - equivalent S% pyrite	S19-Au30885	NCP	% S	n/a	n/a	n/a	30%	Pass	
Calcium - KCl Extractable	S19-Au30885	NCP	% Ca	0.20	0.21	1.0	30%	Pass	
Calcium - Peroxide	S19-Au30885	NCP	% Ca	0.26	0.26	3.0	30%	Pass	
Acid Reacted Calcium	S19-Au30885	NCP	% Ca	0.05	0.06	11	30%	Pass	
acidity - Acid Reacted Calcium	S19-Au30885	NCP	mol H+/t	25	28	11	30%	Pass	
sulfidic - Acid Reacted Ca equiv. S% pyrite	S19-Au30885	NCP	% S	0.04	0.05	11	30%	Pass	
Magnesium - KCl Extractable	S19-Au30885	NCP	% Mg	0.27	0.28	1.0	30%	Pass	
Magnesium - Peroxide	S19-Au30885	NCP	% Mg	0.39	0.40	2.0	30%	Pass	
Acid Reacted Magnesium	S19-Au30885	NCP	% Mg	0.12	0.13	4.0	30%	Pass	
acidity - Acid Reacted Magnesium	S19-Au30885	NCP	mol H+/t	99	100	4.0	30%	Pass	
sulfidic - Acid Reacted Mg equiv. S% pyrite	S19-Au30885	NCP	% S	0.16	0.17	4.0	30%	Pass	
Acid Neutralising Capacity (ANCE)	S19-Au30885	NCP	% CaCO ₃	n/a	n/a	n/a	30%	Pass	
Acid Neutralising Capacity - Acidity units (a-ANCE)	S19-Au30885	NCP	mol H+/t	n/a	n/a	n/a	30%	Pass	
ANC Fineness Factor	S19-Au30885	NCP	factor	1.5	1.5	<1	30%	Pass	
SPOCAS - Liming rate	S19-Au30885	NCP	kg CaCO ₃ /t	37	37	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S19-Au33300	NCP	%	6.4	6.5	1.0	30%	Pass	

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised By

Ursula Long	Analytical Services Manager
Myles Clark	Senior Analyst-SPOCAS (QLD)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Ursula Long

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Monday, 26 August 2019 5:13 PM
To: Ursula Long
Subject: RE: Eurofins Draft Test Results - Report 671915 : Site CENTRAL COAST DSI (56387)

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL EMAIL*

Hi Ursula,

Could I please have soil analysis for Heavy Metals and PAHs done on TP154_0.0-0.1 19-Au23565 on a 48hr TAT.

Thanks,

Ryan

From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Monday, 26 August 2019 12:54 PM
To: Ryan Lill <rlill@jbsg.com.au>
Subject: RE: Eurofins Draft Test Results - Report 671915 : Site CENTRAL COAST DSI (56387)

Hi Ryan,

Sorry for the delay – we've confirmed with the lab that these should be complete by 5pm today but we're pushing for these as early as possible.

At the moment it's looking like Salmonella will most likely hold up 671628 until 5pm.

Note that 671221 was issued on the 22nd – let me know if you need a copy forwarded.

Kind regards,

Ursula Long

Eurofins | Environment Testing

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LANE COVE WEST NSW 2066
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Site # 1254 & 14271

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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane

1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 2 Day
Date/Time received: Aug 26, 2019 5:13 PM
Eurofins reference: **673401**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlll@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 26, 2019 5:13 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	673401	Due:	Aug 28, 2019
Project Name:	CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	2 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Polycyclic Aromatic Hydrocarbons	Metals M8	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	TP154_0.0-0.1	Aug 14, 2019		Soil	M19-Au37867	X	X	X
Test Counts						1	1	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ryan Lill

Report 673401-S
 Project name **CENTRAL COAST DSI**
 Project ID **56387**
 Received Date **Aug 26, 2019**

Client Sample ID			TP154_0.0-0.1
Sample Matrix			Soil
Eurofins Sample No.			M19-Au37867
Date Sampled			Aug 14, 2019
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benzo(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	77
p-Terphenyl-d14 (surr.)	1	%	95
Heavy Metals			
Arsenic	2	mg/kg	2.3
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	5.8
Copper	5	mg/kg	6.0
Lead	5	mg/kg	10
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	25
% Moisture	1	%	9.6

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Aug 27, 2019	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Aug 27, 2019	180 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Aug 27, 2019	14 Days

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 26, 2019 5:13 PM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 673401	Due: Aug 28, 2019
Project Name: CENTRAL COAST DSI	Phone: 02 8245 0300	Priority: 2 Day
Project ID: 56387	Fax:	Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Polycyclic Aromatic Hydrocarbons	Metals M8	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	TP154_0.0-0.1	Aug 14, 2019		Soil	M19-Au37867	X	X	X
Test Counts						1	1	1

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	mg/kg	< 0.5		0.5	Pass	
Acenaphthylene	mg/kg	< 0.5		0.5	Pass	
Anthracene	mg/kg	< 0.5		0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5		0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5		0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5		0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5		0.5	Pass	
Chrysene	mg/kg	< 0.5		0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5		0.5	Pass	
Fluoranthene	mg/kg	< 0.5		0.5	Pass	
Fluorene	mg/kg	< 0.5		0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5		0.5	Pass	
Naphthalene	mg/kg	< 0.5		0.5	Pass	
Phenanthrene	mg/kg	< 0.5		0.5	Pass	
Pyrene	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Heavy Metals						
Arsenic	mg/kg	< 2		2	Pass	
Cadmium	mg/kg	< 0.4		0.4	Pass	
Chromium	mg/kg	< 5		5	Pass	
Copper	mg/kg	< 5		5	Pass	
Lead	mg/kg	< 5		5	Pass	
Mercury	mg/kg	< 0.1		0.1	Pass	
Nickel	mg/kg	< 5		5	Pass	
Zinc	mg/kg	< 5		5	Pass	
LCS - % Recovery						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	%	103		70-130	Pass	
Acenaphthylene	%	100		70-130	Pass	
Anthracene	%	103		70-130	Pass	
Benz(a)anthracene	%	88		70-130	Pass	
Benzo(a)pyrene	%	86		70-130	Pass	
Benzo(b&j)fluoranthene	%	106		70-130	Pass	
Benzo(g,h,i)perylene	%	75		70-130	Pass	
Benzo(k)fluoranthene	%	113		70-130	Pass	
Chrysene	%	110		70-130	Pass	
Dibenz(a,h)anthracene	%	78		70-130	Pass	
Fluoranthene	%	104		70-130	Pass	
Fluorene	%	95		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	71		70-130	Pass	
Naphthalene	%	108		70-130	Pass	
Phenanthrene	%	91		70-130	Pass	
Pyrene	%	111		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	106		80-120	Pass	
Cadmium	%	82		80-120	Pass	
Chromium	%	108		80-120	Pass	
Copper	%	106		80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead			%	113			80-120	Pass	
Mercury			%	98			75-125	Pass	
Nickel			%	109			80-120	Pass	
Zinc			%	106			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M19-Au31925	NCP	%	79			70-130	Pass	
Acenaphthylene	M19-Au31925	NCP	%	76			70-130	Pass	
Anthracene	M19-Au31925	NCP	%	81			70-130	Pass	
Benz(a)anthracene	M19-Au31925	NCP	%	73			70-130	Pass	
Benzo(a)pyrene	M19-Au31925	NCP	%	108			70-130	Pass	
Benzo(b&j)fluoranthene	M19-Au31925	NCP	%	86			70-130	Pass	
Benzo(g,h,i)perylene	M19-Au31925	NCP	%	90			70-130	Pass	
Benzo(k)fluoranthene	M19-Au31925	NCP	%	90			70-130	Pass	
Chrysene	M19-Au31925	NCP	%	87			70-130	Pass	
Dibenz(a,h)anthracene	M19-Au31925	NCP	%	95			70-130	Pass	
Fluoranthene	M19-Au31925	NCP	%	84			70-130	Pass	
Fluorene	M19-Au31925	NCP	%	76			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M19-Au31925	NCP	%	87			70-130	Pass	
Naphthalene	M19-Au31925	NCP	%	86			70-130	Pass	
Phenanthrene	M19-Au31925	NCP	%	85			70-130	Pass	
Pyrene	M19-Au31925	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M19-Au35017	NCP	%	23			75-125	Fail	Q08
Cadmium	M19-Au35017	NCP	%	79			75-125	Pass	
Chromium	M19-Au35017	NCP	%	131			75-125	Fail	Q08
Copper	M19-Au35017	NCP	%	96			75-125	Pass	
Lead	M19-Au35017	NCP	%	97			75-125	Pass	
Mercury	M19-Au35017	NCP	%	77			70-130	Pass	
Nickel	M19-Au35017	NCP	%	103			75-125	Pass	
Zinc	M19-Au35017	NCP	%	77			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M19-Au37867	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M19-Au35017	NCP	mg/kg	170	170	<1	30%	Pass
Cadmium	M19-Au35017	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M19-Au35017	NCP	mg/kg	84	85	1.0	30%	Pass
Copper	M19-Au35017	NCP	mg/kg	9.0	9.2	1.0	30%	Pass
Lead	M19-Au35017	NCP	mg/kg	19	20	1.0	30%	Pass
Mercury	M19-Au35017	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	M19-Au35017	NCP	mg/kg	35	35	<1	30%	Pass
Zinc	M19-Au35017	NCP	mg/kg	39	39	1.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M19-Au37867	CP	%	9.6	9.9	3.0	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference

Authorised By

Ursula Long	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)


Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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#AU04_Enviro_Sample_NSW

To: Ursula Long
Subject: RE: 3 DAY TAT ADDITIONAL: FW: Additional PFAS sample request

From: Ryan Lill [<mailto:rlill@jbsg.com.au>]
Sent: Tuesday, 27 August 2019 10:04 AM
To: Ursula Long
Subject: Additional PFAS sample request

EXTERNAL EMAIL*

Hi Ursula,

As spoken about on the phone this morning could I please have the following samples sub-sampled for 28 PFAS analysis on a three day TAT.

671628

TP28_0.4-0.5 S19-Au23579
TP18_0.4-0.5 S19-Au23695
BH31_0.0-0.1 S19-Au23491
TP144_0.9-1.0 S19-Au23523
TP146_1.9-2.0 S19-Au23529
TP24_3.4-3.5 S19-Au23577
TP35_1.9-2.0 S19-Au23584
BH25/MW04_0.9-1.0 S19-Au23483
BH04/MW03_0.9-1.0 S19-Au23629

Thank you!

Ryan



Ryan Lill | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000

T: 02 8245 0300 | M: 0468 771 734 | E: rlill@jbsg.com.au | W: www.jbsg.com.au

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth

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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

ABN – 50 005 085 521

e.mail : EnviroSales@eurofins.com

web : www.eurofins.com.au

Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**
Contact name: Ryan Lill
Project name: ADDITIONAL - CENTRAL COAST DSI
Project ID: 56387
COC number: Not provided
Turn around time: 3 Day
Date/Time received: Aug 27, 2019 10:04 AM
Eurofins reference: **673449**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
 - Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 14 degrees Celsius.
 - All samples have been received as described on the above COC.
 - COC has been completed correctly.
 - Attempt to chill was evident.
 - Appropriately preserved sample containers have been used.
 - All samples were received in good condition.
 - Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
 - Appropriate sample containers have been used.
 - Split sample sent to requested external lab.
 - Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Ryan Lill - rlll@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Company Name: JBS & G Australia (NSW) P/L	Order No.:	Received: Aug 27, 2019 10:04 AM
Address: Level 1, 50 Margaret St Sydney NSW 2000	Report #: 673449	Due: Aug 29, 2019
	Phone: 02 8245 0300	Priority: 3 Day
	Fax:	Contact Name: Ryan Lill
Project Name: ADDITIONAL - CENTRAL COAST DSI		
Project ID: 56387		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794						X	X
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	TP28_0.4-0.5	Aug 14, 2019		Soil	S19-Au38068	X	X
2	TP18_0.4-0.5	Aug 14, 2019		Soil	S19-Au38069	X	X
3	BH31_0.0-0.1	Aug 14, 2019		Soil	S19-Au38070	X	X
4	TP144_0.9-1.0	Aug 14, 2019		Soil	S19-Au38071	X	X
5	TP146_1.9-2.0	Aug 14, 2019		Soil	S19-Au38072	X	X
6	TP24_3.4-3.5	Aug 14, 2019		Soil	S19-Au38073	X	X
7	TP35_1.9-2.0	Aug 14, 2019		Soil	S19-Au38074	X	X
8	BH25/MW04_0.9-1.0	Aug 14, 2019		Soil	S19-Au38075	X	X
9	BH04/MW03_	Aug 14, 2019		Soil	S19-Au38076	X	X

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 27, 2019 10:04 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	673449	Due:	Aug 29, 2019
Project Name:	ADDITIONAL - CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail					Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794					X	X
Perth Laboratory - NATA Site # 23736						
	0.9-1.0					
Test Counts					9	9

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: **Ryan Lill**

Report **673449-S**
 Project name **ADDITIONAL - CENTRAL COAST DSI**
 Project ID **56387**
 Received Date **Aug 27, 2019**

Client Sample ID			TP28_0.4-0.5	TP18_0.4-0.5	BH31_0.0-0.1	TP144_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au38068	S19-Au38069	S19-Au38070	S19-Au38071
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
% Moisture	1	%	13	11	28	13
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	96	90	76	93
13C5-PFPeA (surr.)	1	%	79	79	62	93
13C5-PFHxA (surr.)	1	%	87	89	73	88
13C4-PFHpA (surr.)	1	%	86	84	67	88
13C8-PFOA (surr.)	1	%	88	85	69	81
13C5-PFNA (surr.)	1	%	84	77	64	80
13C6-PFDA (surr.)	1	%	86	73	67	77
13C2-PFUnDA (surr.)	1	%	87	81	57	76
13C2-PFDoDA (surr.)	1	%	83	86	66	83
13C2-PFTeDA (surr.)	1	%	84	83	55	85
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	82	82	62	78

Client Sample ID			TP28_0.4-0.5	TP18_0.4-0.5	BH31_0.0-0.1	TP144_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au38068	S19-Au38069	S19-Au38070	S19-Au38071
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	82	86	56	73
D5-N-EtFOSA (surr.)	1	%	91	94	59	86
D7-N-MeFOSE (surr.)	1	%	91	92	63	86
D9-N-EtFOSE (surr.)	1	%	88	90	58	82
D5-N-EtFOSAA (surr.)	1	%	93	72	61	81
D3-N-MeFOSAA (surr.)	1	%	103	75	65	93
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	90	97	76	89
18O2-PFHxS (surr.)	1	%	94	79	70	82
13C8-PFOS (surr.)	1	%	96	84	43	76
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	11	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	63	58	71	92
13C2-6:2 FTSA (surr.)	1	%	64	78	60	82
13C2-8:2 FTSA (surr.)	1	%	82	56	64	11
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	11	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP146_1.9-2.0	TP24_3.4-3.5	TP35_1.9-2.0	BH25/MW04_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au38072	S19-Au38073	S19-Au38074	S19-Au38075
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
% Moisture	1	%	16	16	12	12

Client Sample ID			TP146_1.9-2.0	TP24_3.4-3.5	TP35_1.9-2.0	BH25/MW04_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au38072	S19-Au38073	S19-Au38074	S19-Au38075
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	85	87	91	96
13C5-PFPeA (surr.)	1	%	80	83	92	98
13C5-PFHxA (surr.)	1	%	84	80	85	95
13C4-PFHpA (surr.)	1	%	81	87	74	93
13C8-PFOA (surr.)	1	%	85	76	82	93
13C5-PFNA (surr.)	1	%	68	73	75	96
13C6-PFDA (surr.)	1	%	75	75	75	88
13C2-PFUnDA (surr.)	1	%	69	75	69	92
13C2-PFDoDA (surr.)	1	%	69	73	72	97
13C2-PFTeDA (surr.)	1	%	70	73	74	102
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	72	75	77	97
D3-N-MeFOSA (surr.)	1	%	69	73	71	90
D5-N-EtFOSA (surr.)	1	%	69	77	77	97
D7-N-MeFOSE (surr.)	1	%	78	79	80	97
D9-N-EtFOSE (surr.)	1	%	73	76	74	99
D5-N-EtFOSAA (surr.)	1	%	75	84	69	84
D3-N-MeFOSAA (surr.)	1	%	89	93	82	93
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP146_1.9-2.0	TP24_3.4-3.5	TP35_1.9-2.0	BH25/MW04_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-Au38072	S19-Au38073	S19-Au38074	S19-Au38075
Date Sampled			Aug 14, 2019	Aug 14, 2019	Aug 14, 2019	Aug 14, 2019
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
13C3-PFBS (surr.)	1	%	82	87	87	101
18O2-PFHxS (surr.)	1	%	70	82	74	92
13C8-PFOS (surr.)	1	%	82	75	81	92
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	69	65	71	64
13C2-6:2 FTSA (surr.)	1	%	74	63	51	41
13C2-8:2 FTSA (surr.)	1	%	60	66	89	71
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH04/MW03_0.9-1.0
Sample Matrix			Soil
Eurofins Sample No.			S19-Au38076
Date Sampled			Aug 14, 2019
Test/Reference	LOR	Unit	
% Moisture	1	%	20
Perfluoroalkyl carboxylic acids (PFCA)			
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5
13C4-PFBA (surr.)	1	%	91
13C5-PFPeA (surr.)	1	%	78
13C5-PFHxA (surr.)	1	%	99
13C4-PFHpA (surr.)	1	%	86
13C8-PFOA (surr.)	1	%	101
13C5-PFNA (surr.)	1	%	79
13C6-PFDA (surr.)	1	%	94

Client Sample ID			BH04/MW03_0.9-1.0
Sample Matrix			Soil
Eurofins Sample No.			S19-Au38076
Date Sampled			Aug 14, 2019
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
13C2-PFUnDA (surr.)	1	%	87
13C2-PFDoDA (surr.)	1	%	98
13C2-PFTeDA (surr.)	1	%	92
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10
13C8-FOSA (surr.)	1	%	97
D3-N-MeFOSA (surr.)	1	%	96
D5-N-EtFOSA (surr.)	1	%	98
D7-N-MeFOSE (surr.)	1	%	98
D9-N-EtFOSE (surr.)	1	%	101
D5-N-EtFOSAA (surr.)	1	%	57
D3-N-MeFOSAA (surr.)	1	%	50
Perfluoroalkyl sulfonic acids (PFSA)			
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	95
18O2-PFHxS (surr.)	1	%	89
13C8-PFOS (surr.)	1	%	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5
13C2-4:2 FTSA (surr.)	1	%	67
13C2-6:2 FTSA (surr.)	1	%	79
13C2-8:2 FTSA (surr.)	1	%	111

Client Sample ID			BH04/MW03_0.9-1.0
Sample Matrix			Soil
Eurofins Sample No.			S19-Au38076
Date Sampled			Aug 14, 2019
Test/Reference	LOR	Unit	
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Aug 27, 2019	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 28, 2019	180 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 28, 2019	180 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 28, 2019	180 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Aug 28, 2019	180 Days

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 27, 2019 10:04 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	673449	Due:	Aug 29, 2019
Project Name:	ADDITIONAL - CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217							
Brisbane Laboratory - NATA Site # 20794						X	X
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	TP28_0.4-0.5	Aug 14, 2019		Soil	S19-Au38068	X	X
2	TP18_0.4-0.5	Aug 14, 2019		Soil	S19-Au38069	X	X
3	BH31_0.0-0.1	Aug 14, 2019		Soil	S19-Au38070	X	X
4	TP144_0.9-1.0	Aug 14, 2019		Soil	S19-Au38071	X	X
5	TP146_1.9-2.0	Aug 14, 2019		Soil	S19-Au38072	X	X
6	TP24_3.4-3.5	Aug 14, 2019		Soil	S19-Au38073	X	X
7	TP35_1.9-2.0	Aug 14, 2019		Soil	S19-Au38074	X	X
8	BH25/MW04_0.9-1.0	Aug 14, 2019		Soil	S19-Au38075	X	X
9	BH04/MW03_	Aug 14, 2019		Soil	S19-Au38076	X	X

Company Name:	JBS & G Australia (NSW) P/L	Order No.:		Received:	Aug 27, 2019 10:04 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	Report #:	673449	Due:	Aug 29, 2019
Project Name:	ADDITIONAL - CENTRAL COAST DSI	Phone:	02 8245 0300	Priority:	3 Day
Project ID:	56387	Fax:		Contact Name:	Ryan Lill
Eurofins Analytical Services Manager : Ursula Long					

Sample Detail					Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794					X	X
Perth Laboratory - NATA Site # 23736						
	0.9-1.0					
Test Counts					9	9

Internal Quality Control Review and Glossary
General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5		5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5		5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5		5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5		5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5		5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5		5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10		10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10		10	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5		5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5		5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5		5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5		5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	117		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	127		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	112		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	103		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	110		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	122		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	130		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	125		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	111		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	129		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	129		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	139			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	125			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	116			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	117			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	116			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	121			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	107			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)								
Perfluorobutanesulfonic acid (PFBS)	%	111			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	111			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	104			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	119			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	131			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	137			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	118			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	79			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	106			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	102			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	98			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	109			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	S19-Au36307	NCP	%	118		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S19-Au36307	NCP	%	89		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S19-Au36307	NCP	%	103		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S19-Au36307	NCP	%	112		50-150	Pass	
Perfluorooctanoic acid (PFOA)	S19-Au36307	NCP	%	118		50-150	Pass	
Perfluorononanoic acid (PFNA)	S19-Au36307	NCP	%	133		50-150	Pass	
Perfluorodecanoic acid (PFDA)	S19-Au36307	NCP	%	120		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S19-Au36307	NCP	%	135		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S19-Au36307	NCP	%	113		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S19-Au36307	NCP	%	133		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S19-Au36307	NCP	%	136		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	S19-Au36307	NCP	%	123		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S19-Au36307	NCP	%	130		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S19-Au36307	NCP	%	121		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S19-Au36307	NCP	%	117		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S19-Au36307	NCP	%	108		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S19-Au36307	NCP	%	121			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S19-Au36307	NCP	%	115			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S19-Au38068	CP	%	107			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S19-Au38068	CP	%	104			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S19-Au38068	CP	%	107			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S19-Au38068	CP	%	104			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S19-Au38068	CP	%	117			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S19-Au38068	CP	%	113			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S19-Au38068	CP	%	120			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S19-Au38068	CP	%	86			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S19-Au36307	NCP	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-Au36307	NCP	%	122			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S19-Au36307	NCP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S19-Au36307	NCP	%	146			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B19-Au39000	NCP	ug/kg	9.9	11	7.0	30%	Pass	
Perfluorononanoic acid (PFNA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTTrDA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTTeDA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B19-Au39000	NCP	ug/kg	11	12	12	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B19-Au39000	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B19-Au39000	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B19-Au39000	NCP	ug/kg	37	39	6.0	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B19-Au39000	NCP	ug/kg	62	69	10	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B19-Au39000	NCP	ug/kg	6.6	7.1	7.0	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B19-Au39000	NCP	ug/kg	500	500	1.0	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B19-Au39000	NCP	ug/kg	34	35	3.0	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B19-Au39000	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B19-Au39000	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S19-Au38073	CP	%	16	20	21	30%	Pass

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised By

Ursula Long	Analytical Services Manager
Bryan Wilson	Senior Analyst-PFAS (QLD)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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CERTIFICATE OF ANALYSIS 224101

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	R Lill
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	56387, Central Coast DSI
Number of Samples	13 SOIL, 1 WATER
Date samples received	16/08/2019
Date completed instructions received	16/08/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	23/08/2019
Date of Issue	23/08/2019

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Asbestos Approved By

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

Results Approved By

Fiona Tan, LC Supervisor
Jaimie Loa-Kum-Cheung, Metals Supervisor
Loren Bardwell, Senior Chemist
Lucy Zhu, Senior Asbestos Analyst
Nick Sarlamis, Inorganics Supervisor
Steven Luong, Organics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in soil						
Our Reference		224101-1	224101-2	224101-3	224101-5	224101-6
Your Reference	UNITS	QA01	QA02	QA03	QA05	QA06
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	22/08/2019	22/08/2019	22/08/2019	22/08/2019	22/08/2019
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		224101-1	224101-2	224101-3	224101-5	224101-6
Your Reference	UNITS	QA01	QA02	QA03	QA05	QA06
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluorometha	%	99	99	101	99	97
Surrogate aaa-Trifluorotoluene	%	97	97	108	105	99
Surrogate Toluene-d ₈	%	98	97	97	99	97
Surrogate 4-Bromofluorobenzene	%	99	97	99	91	85

VOCs in soil		
Our Reference		224101-10
Your Reference	UNITS	QA10
Date Sampled		14/08/2019
Type of sample		SOIL
Date extracted	-	20/08/2019
Date analysed	-	22/08/2019
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1

VOCs in soil		
Our Reference		224101-10
Your Reference	UNITS	QA10
Date Sampled		14/08/2019
Type of sample		SOIL
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	101
Surrogate aaa-Trifluorotoluene	%	103
Surrogate Toluene-d ₈	%	97
Surrogate 4-Bromofluorobenzene	%	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		224101-1	224101-2	224101-3	224101-5	224101-6
Your Reference	UNITS	QA01	QA02	QA03	QA05	QA06
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	22/08/2019	22/08/2019	22/08/2019	22/08/2019	22/08/2019
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	97	108	105	99

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		224101-10
Your Reference	UNITS	QA10
Date Sampled		14/08/2019
Type of sample		SOIL
Date extracted	-	20/08/2019
Date analysed	-	22/08/2019
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<3
Surrogate aaa-Trifluorotoluene	%	103

svTRH (C10-C40) in Soil						
Our Reference		224101-1	224101-2	224101-3	224101-5	224101-6
Your Reference	UNITS	QA01	QA02	QA03	QA05	QA06
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
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	83	87	85	83

svTRH (C10-C40) in Soil		
Our Reference		224101-10
Your Reference	UNITS	QA10
Date Sampled		14/08/2019
Type of sample		SOIL
Date extracted	-	20/08/2019
Date analysed	-	20/08/2019
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	84

PAHs in Soil						
Our Reference		224101-1	224101-2	224101-3	224101-4	224101-5
Your Reference	UNITS	QA01	QA02	QA03	QA04	QA05
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019	21/08/2019	21/08/2019	21/08/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.2	<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	0.3	<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 <i>p</i> -Terphenyl-d14	%	92	101	107	98	111

PAHs in Soil						
Our Reference		224101-6	224101-7	224101-8	224101-9	224101-10
Your Reference	UNITS	QA06	QA012	QA08	QA09	QA10
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019	21/08/2019	21/08/2019	21/08/2019
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	99	92	109	99	98

PAHs in Soil		
Our Reference		224101-11
Your Reference	UNITS	QA11
Date Sampled		14/08/2019
Type of sample		SOIL
Date extracted	-	20/08/2019
Date analysed	-	21/08/2019
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	99

Organochlorine Pesticides in soil						
Our Reference		224101-1	224101-2	224101-4	224101-5	224101-6
Your Reference	UNITS	QA01	QA02	QA04	QA05	QA06
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019	21/08/2019	21/08/2019	21/08/2019
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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	97	97	100	95

PCBs in Soil						
Our Reference		224101-1	224101-2	224101-4	224101-6	224101-9
Your Reference	UNITS	QA01	QA02	QA04	QA06	QA09
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date extracted	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019	21/08/2019	21/08/2019	21/08/2019
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	97	97	95	97

Acid Extractable metals in soil						
Our Reference		224101-1	224101-2	224101-3	224101-4	224101-5
Your Reference	UNITS	QA01	QA02	QA03	QA04	QA05
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Arsenic	mg/kg	<4	<4	<4	5	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	23	5	2	7	11
Copper	mg/kg	12	2	2	6	<1
Lead	mg/kg	8	8	4	9	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	19	1	<1	5	<1
Zinc	mg/kg	19	23	5	21	3

Acid Extractable metals in soil						
Our Reference		224101-6	224101-7	224101-8	224101-9	224101-10
Your Reference	UNITS	QA06	QA012	QA08	QA09	QA10
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
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	<1	7	8	3
Copper	mg/kg	4	<1	<1	11	<1
Lead	mg/kg	6	1	9	12	2
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	<1	<1	8	<1
Zinc	mg/kg	37	<1	4	31	1

Acid Extractable metals in soil		
Our Reference		224101-11
Your Reference	UNITS	QA11
Date Sampled		14/08/2019
Type of sample		SOIL
Date prepared	-	20/08/2019
Date analysed	-	20/08/2019
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	18
Copper	mg/kg	<1
Lead	mg/kg	4
Mercury	mg/kg	<0.1
Nickel	mg/kg	1
Zinc	mg/kg	2

Client Reference: 56387, Central Coast DSI

Moisture						
Our Reference		224101-1	224101-2	224101-3	224101-4	224101-5
Your Reference	UNITS	QA01	QA02	QA03	QA04	QA05
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019	21/08/2019	21/08/2019	21/08/2019
Moisture	%	25	15	24	21	7.4

Moisture						
Our Reference		224101-6	224101-7	224101-8	224101-9	224101-10
Your Reference	UNITS	QA06	QA012	QA08	QA09	QA10
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL	SOIL
Date prepared	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019	21/08/2019	21/08/2019	21/08/2019
Moisture	%	12	12	20	15	16

Moisture			
Our Reference		224101-11	224101-13
Your Reference	UNITS	QA11	QA01-PFA
Date Sampled		14/08/2019	14/08/2019
Type of sample		SOIL	SOIL
Date prepared	-	20/08/2019	20/08/2019
Date analysed	-	21/08/2019	21/08/2019
Moisture	%	12	12

Asbestos ID - soils NEPM					
Our Reference		224101-2	224101-3	224101-4	224101-6
Your Reference	UNITS	QA02	QA03	QA04	QA06
Date Sampled		14/08/2019	14/08/2019	14/08/2019	14/08/2019
Type of sample		SOIL	SOIL	SOIL	SOIL
Date analysed	-	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Sample mass tested	g	511.27	409.43	569.22	750.8
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos ^{#1}	g/kg	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	-	-	-	-
FA and AF Estimation*	g	-	-	-	-
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001

PFAS in Soils Extended		
Our Reference		224101-13
Your Reference	UNITS	QA01-PFA
Date Sampled		14/08/2019
Type of sample		SOIL
Date prepared	-	20/08/2019
Date analysed	-	20/08/2019
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	1.5
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.1
10:2 FTS	µg/kg	<0.1
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfonamide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate ¹³ C ₈ PFOS	%	96
Surrogate ¹³ C ₂ PFOA	%	99
Extracted ISTD ¹³ C ₃ PFBS	%	103
Extracted ISTD ¹⁸ O ₂ PFHxS	%	85
Extracted ISTD ¹³ C ₄ PFOS	%	101
Extracted ISTD ¹³ C ₄ PFBA	%	107

PFAS in Soils Extended		
Our Reference		224101-13
Your Reference	UNITS	QA01-PFA
Date Sampled		14/08/2019
Type of sample		SOIL
Extracted ISTD ¹³ C ₃ PFPeA	%	102
Extracted ISTD ¹³ C ₂ PFHxA	%	121
Extracted ISTD ¹³ C ₄ PFHpA	%	120
Extracted ISTD ¹³ C ₄ PFOA	%	120
Extracted ISTD ¹³ C ₅ PFNA	%	112
Extracted ISTD ¹³ C ₂ PFDA	%	132
Extracted ISTD ¹³ C ₂ PFUnDA	%	119
Extracted ISTD ¹³ C ₂ PFDoDA	%	115
Extracted ISTD ¹³ C ₂ PFTeDA	%	93
Extracted ISTD ¹³ C ₂ 4:2FTS	%	101
Extracted ISTD ¹³ C ₂ 6:2FTS	%	118
Extracted ISTD ¹³ C ₂ 8:2FTS	%	156
Extracted ISTD ¹³ C ₈ FOSA	%	119
Extracted ISTD d ₃ N MeFOSA	%	110
Extracted ISTD d ₅ N EtFOSA	%	103
Extracted ISTD d ₇ N MeFOSE	%	109
Extracted ISTD d ₉ N EtFOSE	%	120
Extracted ISTD d ₃ N MeFOSAA	%	117
Extracted ISTD d ₅ N EtFOSAA	%	107
Total Positive PFHxS & PFOS	µg/kg	1.7
Total Positive PFOS & PFOA	µg/kg	0.3
Total Positive PFAS	µg/kg	1.9

VOCs in water		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date extracted	-	21/08/2019
Date analysed	-	22/08/2019
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	130
Surrogate 4-BFB	%	100

vTRH(C6-C10)/BTEXN in Water		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date extracted	-	21/08/2019
Date analysed	-	22/08/2019
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	130
Surrogate 4-BFB	%	100

svTRH (C10-C40) in Water		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date extracted	-	20/08/2019
Date analysed	-	20/08/2019
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	72

PAHs in Water - Low Level		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date extracted	-	20/08/2019
Date analysed	-	21/08/2019
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	71

HM in water - total		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date prepared	-	20/08/2019
Date analysed	-	20/08/2019
Arsenic-Total	µg/L	1
Cadmium-Total	µg/L	<0.1
Chromium-Total	µg/L	2
Copper-Total	µg/L	3
Lead-Total	µg/L	3
Mercury-Total	µg/L	<0.05
Nickel-Total	µg/L	1
Zinc-Total	µg/L	15

PFAS in Waters Extended		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date prepared	-	20/08/2019
Date analysed	-	20/08/2019
Perfluorobutanesulfonic acid	µg/L	<0.01
Perfluoropentanesulfonic acid	µg/L	<0.01
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01
Perfluoroheptanesulfonic acid	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01
Perfluorodecanesulfonic acid	µg/L	<0.02
Perfluorobutanoic acid	µg/L	<0.02
Perfluoropentanoic acid	µg/L	0.03
Perfluorohexanoic acid	µg/L	<0.01
Perfluoroheptanoic acid	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01
Perfluorononanoic acid	µg/L	<0.01
Perfluorodecanoic acid	µg/L	<0.02
Perfluoroundecanoic acid	µg/L	<0.02
Perfluorododecanoic acid	µg/L	<0.05
Perfluorotridecanoic acid	µg/L	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5
4:2 FTS	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.01
10:2 FTS	µg/L	<0.01
Perfluorooctane sulfonamide	µg/L	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfonamide	µg/L	<0.1
N-Me perfluorooctanesulfonamid oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
Surrogate ¹³ C ₈ PFOS	%	96
Surrogate ¹³ C ₂ PFOA	%	103
Extracted ISTD ¹³ C ₃ PFBS	%	103
Extracted ISTD ¹⁸ O ₂ PFHxS	%	86
Extracted ISTD ¹³ C ₄ PFOS	%	103
Extracted ISTD ¹³ C ₄ PFBA	%	102

PFAS in Waters Extended		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Extracted ISTD ¹³ C ₃ PFPeA	%	98
Extracted ISTD ¹³ C ₂ PFHxA	%	118
Extracted ISTD ¹³ C ₄ PFHpA	%	122
Extracted ISTD ¹³ C ₄ PFOA	%	131
Extracted ISTD ¹³ C ₅ PFNA	%	112
Extracted ISTD ¹³ C ₂ PFDA	%	99
Extracted ISTD ¹³ C ₂ PFUnDA	%	113
Extracted ISTD ¹³ C ₂ PFDoDA	%	100
Extracted ISTD ¹³ C ₂ PFTeDA	%	94
Extracted ISTD ¹³ C ₂ 4:2FTS	%	165
Extracted ISTD ¹³ C ₂ 6:2FTS	%	#
Extracted ISTD ¹³ C ₂ 8:2FTS	%	118
Extracted ISTD ¹³ C ₈ FOSA	%	120
Extracted ISTD d ₃ N MeFOSA	%	113
Extracted ISTD d ₅ N EtFOSA	%	110
Extracted ISTD d ₇ N MeFOSE	%	105
Extracted ISTD d ₉ N EtFOSE	%	110
Extracted ISTD d ₃ N MeFOSAA	%	119
Extracted ISTD d ₅ N EtFOSAA	%	110
Total Positive PFHxS & PFOS	µg/L	<0.01
Total Positive PFOA & PFOS	µg/L	<0.01
Total Positive PFAS	µg/L	0.03

Miscellaneous Inorganics		
Our Reference		224101-12
Your Reference	UNITS	QA01-SW
Date Sampled		14/08/2019
Type of sample		WATER
Date prepared	-	16/08/2019
Date analysed	-	16/08/2019
pH	pH Units	7.0
Electrical Conductivity	µS/cm	180
Total Alkalinity as CaCO ₃	mg/L	23
Ammonia as N in water	mg/L	0.068
Nitrate as N in water	mg/L	0.24
Nitrite as N in water	mg/L	0.005

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.
ASB-001	<p>Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004.</p> <p>Results reported denoted with * are outside our scope of NATA accreditation.</p> <p>NOTE #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF)</p> <p>NOTE #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.</p> <p>Estimation = Estimated asbestos weight</p> <p>Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.</p>
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-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-003	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>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.</p> <p>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).</p>
Org-005	<p>Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.</p>
Org-005	<p>Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.</p> <p>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 report DDD+DDE+DDT.</p>
Org-006	<p>Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.</p>
Org-006	<p>Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.</p> <p>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.</p>
Org-012	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.</p> <p>Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p>
Org-012	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.</p> <p>Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> '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. '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. '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. <p>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.</p>
Org-013	<p>Water samples are analysed directly by purge and trap GC-MS.</p>
Org-014	<p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.</p>
Org-016	<p>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.</p>
Org-016	<p>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.</p> <p>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.</p>

Method ID	Methodology Summary
Org-035	<p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: VOCs in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			22/08/2019	1	22/08/2019	22/08/2019		22/08/2019	22/08/2019
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	105	105
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-014	<1	1	<1	<1	0	94	92
2,2-dichloropropane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	98	97
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	102	103
1,1-dichloropropene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-014	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-014	<1	1	<1	<1	0	94	95
bromodichloromethane	mg/kg	1	Org-014	<1	1	<1	<1	0	94	95
trans-1,3-dichloropropene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-014	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-014	<1	1	<1	<1	0	90	91
1,2-dibromoethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-014	<1	1	<1	<1	0	95	96
1,1,1,2-tetrachloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-014	<2	1	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
o-Xylene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
<i>Surrogate</i> Dibromofluorometha	%		Org-014	98	1	99	99	0	103	99
<i>Surrogate</i> aaa-Trifluorotoluene	%		Org-014	98	1	97	107	10	108	88
<i>Surrogate</i> Toluene-d ₈	%		Org-014	97	1	98	99	1	100	98
<i>Surrogate</i> 4-Bromofluorobenzene	%		Org-014	97	1	99	98	1	92	102

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date extracted	-			21/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			22/08/2019	1	22/08/2019	22/08/2019		22/08/2019	22/08/2019
TRH C ₆ - C ₉	mg/kg	25	Org-016	<25	1	<25	<25	0	91	97
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	1	<25	<25	0	91	97
Benzene	mg/kg	0.2	Org-016	<0.2	1	<0.2	<0.2	0	100	101
Toluene	mg/kg	0.5	Org-016	<0.5	1	<0.5	<0.5	0	100	99
Ethylbenzene	mg/kg	1	Org-016	<1	1	<1	<1	0	88	99
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	84	93
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	85	95
naphthalene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	98	1	97	107	10	108	88

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	1	<50	<50	0	122	84
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	1	<100	<100	0	113	80
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	1	<100	<100	0	123	114
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	1	<50	<50	0	122	84
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	1	<100	<100	0	113	80
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	1	<100	<100	0	123	114
Surrogate o-Terphenyl	%		Org-003	98	1	85	84	1	75	113

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			21/08/2019	1	21/08/2019	21/08/2019		21/08/2019	21/08/2019
Naphthalene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	125	126
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	115	120
Phenanthrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	108	105
Anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	107	118
Pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	111	120
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	104	109
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	1	<0.05	<0.05	0	108	116
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	104	1	92	101	9	101	105

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	20/08/2019	20/08/2019		[NT]	[NT]
Date analysed	-			[NT]	11	21/08/2019	21/08/2019		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	11	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	11	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	11	99	91	8	[NT]	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			21/08/2019	1	21/08/2019	21/08/2019		21/08/2019	21/08/2019
HCB	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	100	95
gamma-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	100	92
Heptachlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	97	93
delta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	105	98
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	105	98
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	107	99
Dieldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	126	119
Endrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	107	102
pp-DDD	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	99	94
Endosulfan II	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	111	117
Methoxychlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	100	1	102	99	3	94	94

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PCBs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			21/08/2019	1	21/08/2019	21/08/2019		21/08/2019	21/08/2019
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	115	112
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-006	100	1	102	99	3	94	94

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	224101-2
Date prepared	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	101	93
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	96	88
Chromium	mg/kg	1	Metals-020	<1	1	23	21	9	104	91
Copper	mg/kg	1	Metals-020	<1	1	12	12	0	103	97
Lead	mg/kg	1	Metals-020	<1	1	8	8	0	124	93
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	95	77
Nickel	mg/kg	1	Metals-020	<1	1	19	19	0	101	93
Zinc	mg/kg	1	Metals-020	<1	1	19	22	15	113	86

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PFAS in Soils Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	224101-13
Date prepared	-			20/08/2019	13	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Date analysed	-			20/08/2019	13	20/08/2019	20/08/2019		20/08/2019	20/08/2019
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	107	106
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	121	120
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-035	<0.1	13	1.5	1.1	31	124	124
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	112	111
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-035	<0.1	13	0.2	0.2	0	105	107
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-035	<0.2	13	<0.2	<0.2	0	134	116
Perfluorobutanoic acid	µg/kg	0.2	Org-035	<0.2	13	<0.2	<0.2	0	95	95
Perfluoropentanoic acid	µg/kg	0.2	Org-035	<0.2	13	<0.2	<0.2	0	110	105
Perfluorohexanoic acid	µg/kg	0.1	Org-035	<0.1	13	0.1	0.1	0	91	94
Perfluoroheptanoic acid	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	105	107
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-035	<0.1	13	0.1	0.1	0	97	101
Perfluorononanoic acid	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	98	103
Perfluorodecanoic acid	µg/kg	0.5	Org-035	<0.5	13	<0.5	<0.5	0	101	113
Perfluoroundecanoic acid	µg/kg	0.5	Org-035	<0.5	13	<0.5	<0.5	0	102	115
Perfluorododecanoic acid	µg/kg	0.5	Org-035	<0.5	13	<0.5	<0.5	0	103	102
Perfluorotridecanoic acid	µg/kg	0.5	Org-035	<0.5	13	<0.5	<0.5	0	101	100
Perfluorotetradecanoic acid	µg/kg	5	Org-035	<5	13	<5	<5	0	98	99
4:2 FTS	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	106	111
6:2 FTS	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	111	109
8:2 FTS	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	116	109
10:2 FTS	µg/kg	0.1	Org-035	<0.1	13	<0.1	<0.1	0	84	77
Perfluorooctane sulfonamide	µg/kg	1	Org-035	<1	13	<1	<1	0	86	93
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-035	<1	13	<1	<1	0	103	103
N-Ethyl perfluorooctanesulfonamide	µg/kg	1	Org-035	<1	13	<1	<1	0	108	104
N-Me perfluorooctanesulfonamidethanol	µg/kg	1	Org-035	<1	13	<1	<1	0	93	105
N-Et perfluorooctanesulfonamidethanol	µg/kg	5	Org-035	<5	13	<5	<5	0	88	88
MePerfluorooctanesulfonamidacetic acid	µg/kg	0.2	Org-035	<0.2	13	<0.2	<0.2	0	69	69
EtPerfluorooctanesulfonamidacetic acid	µg/kg	0.2	Org-035	<0.2	13	<0.2	<0.2	0	94	87
Surrogate ¹³ C ₈ PFOS	%		Org-035	98	13	96	87	10	98	103
Surrogate ¹³ C ₂ PFOA	%		Org-035	101	13	99	100	1	101	105

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PFAS in Soils Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	224101-13
Extracted ISTD ¹³ C ₃ PFBS	%		Org-035	102	13	103	105	2	103	101
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-035	97	13	85	88	3	90	83
Extracted ISTD ¹³ C ₄ PFOS	%		Org-035	102	13	101	111	9	101	97
Extracted ISTD ¹³ C ₄ PFBA	%		Org-035	101	13	107	111	4	107	108
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-035	88	13	102	107	5	90	102
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-035	118	13	121	119	2	118	116
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-035	122	13	120	123	2	122	119
Extracted ISTD ¹³ C ₄ PFOA	%		Org-035	116	13	120	121	1	113	116
Extracted ISTD ¹³ C ₅ PFNA	%		Org-035	104	13	112	112	0	106	110
Extracted ISTD ¹³ C ₂ PFDA	%		Org-035	103	13	132	114	15	104	110
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-035	108	13	119	125	5	108	118
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-035	103	13	115	123	7	112	130
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-035	101	13	93	104	11	87	100
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-035	64	13	101	114	12	80	109
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-035	87	13	118	126	7	93	124
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-035	83	13	156	135	14	101	140
Extracted ISTD ¹³ C ₈ FOSA	%		Org-035	140	13	119	124	4	131	121
Extracted ISTD d ₃ N MeFOSA	%		Org-035	111	13	110	102	8	108	109
Extracted ISTD d ₅ N EtFOSA	%		Org-035	101	13	103	93	10	100	104
Extracted ISTD d ₇ N MeFOSE	%		Org-035	124	13	109	110	1	122	105

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PFAS in Soils Extended						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	224101-13
<i>Extracted ISTD d₉ N EtFOSE</i>	%		Org-035	132	13	120	118	2	124	120
<i>Extracted ISTD d₃ N MeFOSAA</i>	%		Org-035	104	13	117	126	7	112	134
<i>Extracted ISTD d₅ N EtFOSAA</i>	%		Org-035	88	13	107	111	4	101	122

QUALITY CONTROL: VOCs in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			21/08/2019	[NT]	[NT]	[NT]	[NT]	21/08/2019	[NT]
Date analysed	-			22/08/2019	[NT]	[NT]	[NT]	[NT]	22/08/2019	[NT]
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	89	[NT]
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	77	[NT]
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	83	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-013	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-013	84	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-013	75	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-BFB	%		Org-013	102	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			21/08/2019	[NT]	[NT]	[NT]	[NT]	21/08/2019	[NT]
Date analysed	-			22/08/2019	[NT]	[NT]	[NT]	[NT]	22/08/2019	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	86	[NT]
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-016	84	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-016	75	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-BFB	%		Org-016	102	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Date analysed	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	78	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	78	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-003	95	[NT]	[NT]	[NT]	[NT]	105	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PAHs in Water - Low Level				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Date analysed	-			21/08/2019	[NT]	[NT]	[NT]	[NT]	21/08/2019	[NT]
Naphthalene	µg/L	0.2	Org-012	<0.2	[NT]	[NT]	[NT]	[NT]	128	[NT]
Acenaphthylene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Phenanthrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Anthracene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Pyrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-012	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	108	[NT]	[NT]	[NT]	[NT]	100	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: HM in water - total				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Date analysed	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Copper-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Lead-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	106	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]

QUALITY CONTROL: PFAS in Waters Extended				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Date analysed	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	117	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	118	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	101	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	117	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-035	<0.05	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-035	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-035	<0.5	[NT]	[NT]	[NT]	[NT]	109	[NT]
4:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
6:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	109	[NT]
8:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	124	[NT]
10:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-035	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-035	<0.05	[NT]	[NT]	[NT]	[NT]	108	[NT]
N-Ethyl perfluorooctanesulfonamide	µg/L	0.1	Org-035	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
N-Me perfluorooctanesulfonamidethanol	µg/L	0.05	Org-035	<0.05	[NT]	[NT]	[NT]	[NT]	120	[NT]
N-Et perfluorooctanesulfonamidethanol	µg/L	0.5	Org-035	<0.5	[NT]	[NT]	[NT]	[NT]	111	[NT]
MePerfluorooctanesulfonamidacetic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	99	[NT]
EtPerfluorooctanesulfonamidacetic acid	µg/L	0.02	Org-035	<0.02	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-035	100	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-035	104	[NT]	[NT]	[NT]	[NT]	102	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PFAS in Waters Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Extracted ISTD ¹³ C ₃ PFBS	%		Org-035	101	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-035	90	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-035	101	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD ¹³ C ₄ PFBA	%		Org-035	104	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD ¹³ C ₃ PFPeA	%		Org-035	106	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD ¹³ C ₂ PFHxA	%		Org-035	108	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD ¹³ C ₄ PFHpA	%		Org-035	114	[NT]	[NT]	[NT]	[NT]	114	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-035	107	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD ¹³ C ₅ PFNA	%		Org-035	108	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD ¹³ C ₂ PFDA	%		Org-035	110	[NT]	[NT]	[NT]	[NT]	106	[NT]
Extracted ISTD ¹³ C ₂ PFUnDA	%		Org-035	111	[NT]	[NT]	[NT]	[NT]	114	[NT]
Extracted ISTD ¹³ C ₂ PFDoDA	%		Org-035	108	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD ¹³ C ₂ PFTeDA	%		Org-035	107	[NT]	[NT]	[NT]	[NT]	108	[NT]
Extracted ISTD ¹³ C ₂ 4:2FTS	%		Org-035	111	[NT]	[NT]	[NT]	[NT]	117	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-035	121	[NT]	[NT]	[NT]	[NT]	123	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-035	130	[NT]	[NT]	[NT]	[NT]	122	[NT]
Extracted ISTD ¹³ C ₈ FOSA	%		Org-035	104	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD d ₃ N MeFOSA	%		Org-035	104	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD d ₅ N EtFOSA	%		Org-035	105	[NT]	[NT]	[NT]	[NT]	104	[NT]
Extracted ISTD d ₇ N MeFOSE	%		Org-035	101	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PFAS in Waters Extended					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
<i>Extracted ISTD d₉ N EtFOSE</i>	%		Org-035	106	[NT]	[NT]	[NT]	[NT]	100	[NT]
<i>Extracted ISTD d₃ N MeFOSAA</i>	%		Org-035	120	[NT]	[NT]	[NT]	[NT]	114	[NT]
<i>Extracted ISTD d₅ N EtFOSAA</i>	%		Org-035	117	[NT]	[NT]	[NT]	[NT]	119	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: Miscellaneous Inorganics				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			16/08/2019	[NT]	[NT]	[NT]	[NT]	16/08/2019	[NT]
Date analysed	-			16/08/2019	[NT]	[NT]	[NT]	[NT]	16/08/2019	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Total Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	94	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	104	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	89	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	104	[NT]

Result Definitions

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

Quality Control Definitions

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

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

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Report Comments

Asbestos-ID in soil: NEPM

This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

pH have exceeded the recommended technical holding times, Envirolab Group form 347 "Recommended Preservation and Holding Times" can be provided on request (available on the Envirolab website)

017018

CHAIN OF CUSTODY



PROJECT NO.: 56387
 PROJECT NAME: Central Coast DSI
 DATE NEEDED BY: STAT
 PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
 SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2)@jbsg.com.au; (3) m.smunfield@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRHOC	Asbestos	PCBs	OCs	PFA	P.C.P. Alkal	Nitrate/Nitrite	Ammonia	TYPE OF ASBESTOS ANALYSIS	IDENTIFICATION	NEPM/WA	NOTES:
QA01	Soil	14.8.19				x	x	x		x	x								
QA02						x	x	x	x	x									
QA03				J+B		x	x	x											
QA04				J+B		x	x		x	x									
QA05				J+B		x	x	x	x	x									
QA06				J+B		x	x	x	x	x									
QA07				J+B		x	x												
QA08				J		x	x												
QA09				J+B		x	x		x	x									
QA10				J+B		x	x	x											
QA11				J+B		x	x												
QA01-SW	WATER			2xV, 1xM, 1xA, 1xInorg, 1xPFA		x	x					x	x	x	x				
QA01-PFAs	Soil			1x Jar								x							
RBH103-0.0-0.1	Soil			1x PFA															
RBH13-0.0-0.1																			
RBH37-0.0-0.1																			
RBH59-0.0-0.1																			
(W) QA07 (Extr) Kevin																			

EnviroLab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200
ENVIROLAB
 JOB No: 224101
 Date Received: 16/8/19
 Time Received: 15:20
 Received by: [Signature]
 Temp: Cool/Ambient
 Cooling: Ice/Repack
 Security: Intact/Broken/None

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME: <u>Kevin</u>	DATE: <u>16/8/19</u>	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF: JBS&G		TRANSPORT CO.		OF: <u>312</u>		COOLER TEMP deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes..... No..... Intact..... Broken.....	
OF:		TRANSPORT CO.		OF:		COOLER TEMP deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other



Envirolab Services Pty Ltd

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

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CERTIFICATE OF ANALYSIS 224219

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	R Lill
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	56387, Central Coast DSI
Number of Samples	1 Water
Date samples received	19/08/2019
Date completed instructions received	19/08/2019

Analysis Details

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

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

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

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

Report Details

Date results requested by 26/08/2019

Date of Issue 26/08/2019

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By

Fiona Tan, LC Supervisor

Loren Bardwell, Senior Chemist

Nick Sarlamis, Inorganics Supervisor

Steven Luong, Organics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date extracted	-	21/08/2019
Date analysed	-	22/08/2019
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	95
Surrogate 4-BFB	%	98

vTRH in Water (C6-C9) NEPM		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date extracted	-	21/08/2019
Date analysed	-	22/08/2019
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
Surrogate Dibromofluoromethane	%	100
Surrogate toluene-d8	%	95
Surrogate 4-BFB	%	98

svTRH (C10-C40) in Water		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date extracted	-	20/08/2019
Date analysed	-	21/08/2019
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	95

PAHs in Water - Low Level		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date extracted	-	20/08/2019
Date analysed	-	21/08/2019
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	96

HM in water - dissolved		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date prepared	-	20/08/2019
Date analysed	-	20/08/2019
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	2
Zinc-Dissolved	µg/L	28

Miscellaneous Inorganics		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date prepared	-	22/08/2019
Date analysed	-	22/08/2019
pH	pH Units	7.3
Electrical Conductivity	$\mu\text{S/cm}$	5,000
Nitrate as N in water	mg/L	<0.050
Nitrite as N in water	mg/L	<0.050
Ammonia as N in water	mg/L	0.090
Hydroxide Alkalinity (OH^-) as CaCO_3	mg/L	<5
Bicarbonate Alkalinity as CaCO_3	mg/L	230
Carbonate Alkalinity as CaCO_3	mg/L	<5
Total Alkalinity as CaCO_3	mg/L	230

PFAS in Waters Short		
Our Reference		224219-1
Your Reference	UNITS	QA01_GME
Date Sampled		19/08/2019
Type of sample		Water
Date prepared	-	20/08/2019
Date analysed	-	20/08/2019
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.01
Surrogate ¹³ C ₈ PFOS	%	99
Surrogate ¹³ C ₂ PFOA	%	97
Extracted ISTD ¹⁸ O ₂ PFHxS	%	84
Extracted ISTD ¹³ C ₄ PFOS	%	105
Extracted ISTD ¹³ C ₄ PFOA	%	133
Extracted ISTD ¹³ C ₂ 6:2FTS	%	186
Extracted ISTD ¹³ C ₂ 8:2FTS	%	124
Total Positive PFHxS & PFOS	µg/L	<0.01
Total Positive PFOA & PFOS	µg/L	<0.01
Total Positive PFAS	µg/L	<0.01

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-035	<p>Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. Analysis is undertaken with LC-MS/MS.</p> <p>PFAS results include the sum of branched and linear isomers where applicable.</p> <p>Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components.</p> <p>Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.</p>

QUALITY CONTROL: VOCs in water				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			21/08/2019	[NT]	[NT]	[NT]	[NT]	21/08/2019	[NT]
Date analysed	-			22/08/2019	[NT]	[NT]	[NT]	[NT]	22/08/2019	[NT]
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	89	[NT]
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	77	[NT]
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	83	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-013	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-013	84	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-013	75	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-BFB	%		Org-013	102	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: vTRH in Water (C6-C9) NEPM					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			21/08/2019	[NT]	[NT]	[NT]	[NT]	21/08/2019	[NT]
Date analysed	-			22/08/2019	[NT]	[NT]	[NT]	[NT]	22/08/2019	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate Dibromofluoromethane	%		Org-016	84	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-016	75	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-BFB	%		Org-016	102	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	[NT]
Date analysed	-			20/08/2019	1	21/08/2019	21/08/2019		20/08/2019	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-003	<50	1	<50	<50	0	86	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-003	<100	1	<100	<100	0	78	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-003	<100	1	<100	<100	0	100	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	1	<50	<50	0	86	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	1	<100	<100	0	78	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	1	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-003	95	1	95	117	21	105	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PAHs in Water - Low Level				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			20/08/2019	1	20/08/2019	20/08/2019		20/08/2019	[NT]
Date analysed	-			21/08/2019	1	21/08/2019	21/08/2019		21/08/2019	[NT]
Naphthalene	µg/L	0.2	Org-012	<0.2	1	<0.2	<0.2	0	128	[NT]
Acenaphthylene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	108	[NT]
Phenanthrene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	96	[NT]
Anthracene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	104	[NT]
Pyrene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	94	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	84	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	104	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	108	1	96	111	14	100	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: HM in water - dissolved				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Date analysed	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: Miscellaneous Inorganics				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			22/08/2019	[NT]	[NT]	[NT]	[NT]	22/08/2019	[NT]
Date analysed	-			22/08/2019	[NT]	[NT]	[NT]	[NT]	22/08/2019	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	88	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	108	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	104	[NT]
Hydroxide Alkalinity (OH ⁻) as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bicarbonate Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbonate Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Alkalinity as CaCO ₃	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	96	[NT]

Client Reference: 56387, Central Coast DSI

QUALITY CONTROL: PFAS in Waters Short					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Date analysed	-			20/08/2019	[NT]	[NT]	[NT]	[NT]	20/08/2019	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	118	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
6:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	109	[NT]
8:2 FTS	µg/L	0.01	Org-035	<0.01	[NT]	[NT]	[NT]	[NT]	124	[NT]
Surrogate ¹³ C ₈ PFOS	%		Org-035	100	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate ¹³ C ₂ PFOA	%		Org-035	104	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD ¹⁸ O ₂ PFHxS	%		Org-035	90	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD ¹³ C ₄ PFOS	%		Org-035	101	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD ¹³ C ₄ PFOA	%		Org-035	107	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD ¹³ C ₂ 6:2FTS	%		Org-035	121	[NT]	[NT]	[NT]	[NT]	123	[NT]
Extracted ISTD ¹³ C ₂ 8:2FTS	%		Org-035	130	[NT]	[NT]	[NT]	[NT]	122	[NT]

Result Definitions

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

Quality Control Definitions

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

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

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Report Comments

Dissolved Metals: no filtered, preserved sample was received, therefore the unpreserved sample was filtered through 0.45µm filter at the lab. Note: there is a possibility some elements may be underestimated.

MISC_INORG: Nitrate, Nitrite as N PQL has been raised due to matrix interferences. Samples were diluted and reanalysed however same results were achieved.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

pH analysed outside holding time due to organic and PFAS testing taking priority over other testing.

Appendix K Quality Assurance/Quality Control

The QA/QC results for soil samples collected at the site are summarised in **Table K.1** and discussed following. Laboratory certificates of analysis are included in **Appendix J**.

Table K.1: Data Quality Indicator Assessment

Data Quality Objectives	Frequency	Result	DQO met?
Precision			
Blind duplicates (intra laboratory)	Soil – 1/19 Groundwater – 2/13	<LOR-182 % RPD <LOR-100 % RPD	Partial ¹
Blind duplicates (inter laboratory)	Soil – 1.19 Groundwater – 2/13	<LOR-112 % RPD <LOR-133 % RPD	Partial ¹
Laboratory duplicates	Soil – 41/243 samples Groundwater – 2/13 samples	<LOR-200 % RPD <LOR-405 % RPD	Partial ¹
Accuracy			
Surrogate spikes	All organic samples	11 -288 % soil 31-189 % water	Partial ¹
Laboratory control samples	1 per lab batch	69-143 % soil 72-129 % water	Partial ¹
Matrix spikes ¹	1 per lab batch	23-254 % soil 71 - 124% water	Partial ¹
Representativeness			
Sampling appropriate for media and analytes	All Samples	Yes	Yes
Samples extracted and analysed within holding times.	All Samples	Yes	Yes
Trip spike ¹	1 per sampling event	75-100 %	Yes
Storage blank ¹	1 per sampling event	<LOR	Yes
Rinsate blank ¹	1 per sampling data where reusable equipment is used	<LOR	Yes
Laboratory blanks	1 per lab batch	<LOR	Yes
Comparability			
Standard operating procedures for sample collection & handling	All Samples	All samples ³	Yes
Standard analytical methods used for all analyses	All Samples	All samples ³	Yes
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples ³	Yes
Limits of reporting appropriate and consistent	All Samples	All samples ³	Yes
Completeness			
Sample description and COCs completed and appropriate	All Samples	All samples ³	Yes
Appropriate documentation	All Samples	All samples ³	Yes
Satisfactory frequency and result for QC samples	All QA/QC samples	- ³	Yes
Data from critical samples is considered valid	-	Critical samples valid ³	Yes
Sensitivity			
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	All Samples	All samples	Yes

¹ If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment was made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

² A qualitative assessment of compliance with standard procedures and appropriate sample collection methods was completed during the DQI compliance assessment.

Section I1: Precision

A summary of all RPD calculations is provided following the QA/QC evaluation.

Soil

Soil Blind Duplicates (intra laboratory)

Soil field blind (intra-laboratory) duplicates (1 per 19 primary samples) for soil were collected at a rate of greater than 1 per 20 primary samples analysed, meeting the 1/20 DQI frequency (for blind duplicates). High RPDs in the duplicate samples can be expected when materials are heterogeneous and/or when analyte concentrations are close to LOR. The elevated RPDs presented for both intra-laboratory and inter-laboratory duplicates are considered to be acceptable on the basis that the reported concentrations are typically within 10 times the LOR. As a conservative measure the highest values have been considered in the interpretation of data. Blind (intra laboratory) split duplicates for soil RPDs were all within the acceptable JBS&G acceptable limit (0-50%) with the exception of some constituents, as summarised following:

QC01 151 % (nickel), 150 % (zinc), 149 % (chromium), 146 % (mercury), 86 % (arsenic), 67 % (lead); QC02 147 % (fluoranthene), 117 % (indeno(1,2,3-c,d)pyrene), 109 % (benzo(a)pyrene), 100 % (benzo(k)fluoranthene), 100 % (chrysene), 75 % (benz(a)anthracene), 75 % (benzo(b,j)fluoranthene); QC04 53 % (zinc); QC05 60 % (arsenic), 55 % (chromium), 78 % (zinc); QC08 52 % (arsenic); QC10 75 % (arsenic), 65 % (chromium); QC11 51 % (arsenic),

The elevated RPDs presented for laboratory duplicates are considered acceptable as reported concentrations are <10 times the LOR and therefore the RPD limit is generally not applicable (as stated by the laboratory QC acceptance criteria).

Soil Split Duplicates (inter laboratory)

Soil field blind (inter-laboratory) duplicates (1 per 19 primary samples) for soil were collected at a rate of greater than 1 per 20 primary samples analysed meeting the 1/20 DQI frequency (for blind duplicates). Blind (inter laboratory) split duplicates for soil RPDs were all within the acceptable JBS&G acceptable limit (0-50%) with the exception of some constituents, as summarised in attachments following:

QA01 148 % (mercury), 129 % (chromium), 117 % (nickel), 82 % (copper); QA02 168 % (benzo(g,h,i)perylene), 156 % (phenanthrene), 153 % (benz(a)anthracene), 152 % (indeno(1,2,3-c,d)pyrene), 148 % (benzo(a)pyrene), 142 % (chrysene), 138 % (fluoranthene), 61 % (lead); QA05 157 % (zinc); QA06 67 % (mercury); QA08 67 % (lead), 60 % (chromium); QA10 140 % (zinc)

The elevated RPD calculations for the soil blind and split duplicates may be attributed to the heterogeneous nature of the shallow soils present at the site, noting also that reported concentrations were generally low and within 10x laboratory LOR, and are not considered to limit the overall precision of the dataset. As a conservative measure, the higher reported concentration in either the primary or duplicate samples were considered when comparing against site assessment criteria.

Water

Water Blind Duplicates (intra laboratory)

Blind (intra laboratory) duplicates for water RPDs were all within the acceptable JBS&G acceptable limit (0-50%) with the exception of QC01_GME with an RPD of 74 % (C10-C14 Fraction) and 100 % (Perfluoropentanoic acid (PFPeA)). The reported concentrations were within 10x laboratory LOR.

Water Split Duplicates (inter laboratory)

Blind (inter laboratory) triplicates for water RPDs were all within the acceptable JBS&G acceptable limit (0-50%) with the exception of water sample QA01_GME 67 % (C15-C28 Fraction), 113 % (>C10-

C16 Fraction) and QA01_SW 100 % (copper), 67 % (nickel) and 100 % (Perfluoropentanoic acid (PFPeA)).

The elevated RPDs presented for both intra-laboratory and inter-laboratory duplicates are considered to be acceptable on the basis that the reported concentrations are typically with 10 times the LOR.

Laboratory Duplicates

Soil laboratory duplicates RPDs were within the JBS&G acceptable limit (0-50%) with the exception of the 72 % (copper) and 57 % (lead).

Groundwater laboratory duplicates RPDs were all within the JBS&G acceptable limit (0-50%). The rate of laboratory duplicate analysis is within the JBS&G acceptance criteria of 1 in 20 samples.

The elevated RPDs presented are considered to be acceptable on the basis that the reported concentrations are typically with 10 times the LOR.

Section M2: Accuracy

Surrogate Spikes

Soil and groundwater surrogate spikes were conducted on all samples submitted for organic constituent analysis and generally all recoveries were reported within the JBS&G acceptable range (70-130 %). A number of surrogates (in soil and water) were reported outside the JBS&G acceptable range but were within the laboratories acceptable limits (typically between 50 and 150 % recovery) under their NATA accreditation.

Matrix Spikes

The reported matrix spike recoveries were generally within the JBS&G acceptable range (70-130 %) and therefore matrix interference (in either soil or groundwater samples) is not considered to affect the accuracy of the dataset. It is noted five results in soil were reported in excess of the recovery limits. For these, the laboratory noted the matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Laboratory Control Samples

A sufficient number of laboratory control samples were analysed for all media types and all reported recoveries were within the preferred range. With the exception of 10 results that were reported outside of JBS&Gs 70 – 130 % but were within the laboratories 50 -150 % recovery limit.

Section M3: Representativeness

Sampling appropriate for media and analytes

All soil and groundwater sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures. Soil sampling was conducted with the advancement of boreholes and testpits, considered appropriate for the potential site contaminants. Groundwater sampling was completed using a low flow peristaltic pump which is also considered appropriate for the potential site contaminants in groundwater. Surface water sampling was undertaken with use of a decontaminated sampling pole, allowing reach into the water body away from banks and sufficiently below the water line.

Laboratory Blanks

There were no reported concentrations of contaminant compounds above the laboratory LOR in the laboratory method blanks for soil and groundwater analysis.

Holding Times

The extraction and analysis of selected soil and groundwater samples were all completed within the recommended holding times for all analytes.

Trip Spike

A trip spike was submitted with each batch of soil and groundwater samples. All trip spike recoveries were within the acceptable limit of 70-130%, indicating that the adopted assessment sample preservation methods were appropriate to result in a low risk of contaminant concentration loss during transport of the sampling.

Storage Blank

A storage blank sample was carried during each characterisation soil and water sampling event and was submitted with each lab batch, meeting the nominated frequency thresholds.

There were no reported concentrations of BTEX compounds above the laboratory LOR nominated DQIs were achieved.

Rinsate

Rinsate samples were prepared during each sampling event where reusable equipment was used and subsequently submitted with each sample lab batch for analysis for key COPC. During soil sampling the rinsate samples were collected from the hand auger / drill rig auger used to advance bore holes, and during groundwater sampling the rinsate samples were collected from the interface probe used to measure the depth to water. All of the subsequent contaminant concentrations were below the laboratory LOR, achieving the DQIs.

Section M4: Comparability

Documentation

All documentation is complete and correct. Field records are provided as **Appendix I**.

Frequency for QC Samples

Frequency of analysis for the QC samples collected has met or exceeded the required minimum frequency for each analyte and media analysed.

Section M5: Completeness

Samples were transported under full chain of custody (COC) documentation. The COC documentation was completed and the selected analyses were correctly conducted.

All field documentation was completed appropriately including borehole logs, COCs and daily field logs.

Section M6: Sensitivity

Laboratory analysis methods for all contaminants adopted during the investigation applied limits of reporting less than the site assessment criteria.

Section M7: QA/QC Assessment

The field sampling and handling procedures produced QA/QC results which indicate that the soil and groundwater data are of an acceptable quality and suitable for use in site characterisation.

The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples from this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil, groundwater and surface water data is of an acceptable quality in order to achieve the objectives of the assessment.

ESDAT QA Checker
Project: 56387_QAQC
Filter: ALL

Overview Summary

Count of Samples
Summary By Compound
Count of Results

Holding Times

Holding Time Errors (0)

Blanks

Field Blanks
Detects in Lab Blanks (0)
SDG's without Storage Blanks (0)
SDG's without Method Blanks (0)

Duplicates

Field and Interlab Duplicates
[Lab Duplicates with high RPDs \(16\)](#)
Duplicate Samples with incorrect or missing Parent Samples (0)
Samples at the same Location/Depth/Time not specified as duplicates (0)

Surrogates

[Surrogate Variation > 30% or outside lab LCL or UCL \(428\)](#)

Lab Control Samples

SDG's without a Laboratory Control Sample (0)
[Laboratory Control Samples, Error > 30% \(10\)](#)

Certified and Standard Reference Materials

Certified Reference Materials - Error > 10% (0)

Matrix Spikes

SDG's without a Matrix Spike (0)
Trip Spikes with invalid Control Sample (0)
Less than 1 matrix spike in 20 samples, or less than 1 matrix duplicate in 20 samples (0)
[Matrix Spike Recoveries less than 70% or greater than 130% or outside lab LCL or UCL \(18\)](#)
[Trip Spike Recoveries \(70% - 130% is acceptable\) \(24\)](#)

Inorganic

Na + CL > TDS (0)
BOD > COD (0)
BOD > COD (0)

Other

Unit Conversion Problems (0)
OriginalChemNames Requiring Validation (0)
Samples with no Results (0)
Samples associated with Wells which are not specified in the Well Table (0)
Aborted Analysis (0)

Count of All Samples
Project Number: 56387
Project Name: Doyalson DSI



[Contents](#)

Count of Samples

Matrix Type	SOIL	WATER
First Sample Date	12/08/2019	13/08/2019
Last Sample Date	16/08/2019	19/08/2019
Sampling Period (days)	5	7
Number of Samples Submitted	315	29
Number of Non QA Samples Submitted	289	13
Number of Field Blanks	0	2
Number of Trip Blanks	0	4
Number of Rinsates	0	6
Number of Field Duplicates	13	2
Number of Interlab Duplicates	13	2
Number of Trip Spikes	0	4
Number of Lab Duplicates	93	10
Number of LCSs	26	17
Number of CRMs	0	0
Number of Method Blanks	22	17
Number of Storage Blanks	0	0
Number of Matrix Spikes	50	13
Number of Matrix Spike Dupes	0	0

Chem_Group	ChemName	Range	Num Results	Holding Times (days)			Lab Control Samples			Method and Storage Blanks			Laboratory Duplicates			Surrogates			Matrix, Trip and Compound Spikes			Field, Rinsate and Trip Blanks			Field Duplicates		
				Non QA (Normal + Composite)	Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1
Acid Sulphate Soils	Acid Neutralising Capacity		3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Acid Neutralising Capacity - Acidity units	10 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Acid trail - Titratable Actual Acidity	2 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Acid trail - Titratable Peroxide Acidity	2 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Acid trail - Titratable Sulfidic Acidity	2 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Liming rate - SPOCAS	1 KG CaCO3/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Net Acidity (acidity units) - SPOCAS	10 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Net Acidity (sulfur units) - SPOCAS		3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	pH-KCl	0.1 pH Units	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	pH-OX	0.1 pH Units	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Sulfur - KCl Extractable		3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Sulfur - Peroxide		3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Sulfur - Peroxide Oxidisable Sulfur		3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
	Acid Sulphate Soils - Other	Acid Neutralising Capacity equivalent 5% pyrite		3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N
Acid Reacted Calcium			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Acid Reacted Magnesium			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Acidity - Acid Reacted Calcium		10 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Acidity - Acid Reacted Magnesium		10 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Acidity - Peroxide Oxidisable Sulfur		10 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
ANC Fineness Factor			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Calcium - KCl Extractable			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Calcium - Peroxide			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
HCl Extractable Sulfur			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Magnesium - KCl Extractable			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Magnesium - Peroxide			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Net Acid soluble sulfur			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Net Acid soluble sulfur - acidity units		10 MOL H+/T	3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Net Acid soluble sulfur - equivalent 5% pyrite			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Sulfidic - ARM equivalent 5% pyrite			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Sulfidic - TAA - equivalent 5% pyrite			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Sulfidic - TPA - equivalent 5% pyrite			3	Other	2	2 to 8	Y		0			0	N		0			0				0			0	N	
Asbestos	Approx. Sample Mass		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Asbestos from ACM in Soil		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Asbestos from FA & AF in Soil		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
Asbestos	Asbestos ID in Soil		0	Other	6	6	Y		0			0	N		0			0				0			0	N	
	Asbestos Reported Result		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Asbestos Sample Dimensions		7	SVOC	1 to 8	7 to 9	Y		0			0	N		0			0				0			0	N	
Asbestos	Mass ACM		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass AF		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass Asbestos in ACM		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass Asbestos in AF		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass Asbestos in FA		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass Asbestos in FA & AF		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass FA		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Mass AF		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
Asbestos - Trace Analysis	ACM - Comment		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	AF - Comment		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	FA - Comment		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Organic Fibres - Comment		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Respirable Fibres - Comment		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
	Synthetic Fibres - Comment		96	Other	1 to 8	7 to 10	Y		0			0	N		0			0				0			3	Y	
Asbestos ID - soils NEPM	ACM >7mm Estimat ^o *		0	Other	6	6	Y		0			0	N		0			0				0			0	N	
	FA and AF Estimat ^o **2		0	Other	6	6	Y		0			0	N		0			0				0			0	N	
	Total Asbestos#1		0	Other	6	6	Y		0			0	N		0			0				0			0	N	
BTEXN	Benzene	0.1 mg/kg	103	VOC	2 to 9	7 to 10	Y		88 to 107	6	Y	ND	7	Y		2	Y					0			6	Y	
	Ethylbenzene	0.1 mg/kg	103	VOC	2 to 9	7 to 10	Y		84 to 110	6	Y	ND	7	Y		2	Y					0			6	Y	
	Naphthalene	0.5 mg/kg	327	VOC	2 to 9	3 to 10	Y		81 to 128	9	Y	ND	10	Y	200	17	Y					0			16	Y	
	Toluene	0.1 mg/kg	103	VOC	2 to 9	7 to 10	Y		86 to 125	6	Y	ND	7	Y		2	Y					0			6	Y	
	Xylene (m & p)	0.2 mg/kg	103	VOC	2 to 9	7 to 10	Y		84 to 113	6	Y	ND	7	Y		2	Y					0			6	Y	
	Xylene (o)	0.1 mg/kg	103	VOC	2 to 9	7 to 10	Y		84 to 85	2	Y	ND	7	Y		2	Y					0			6	Y	
	Xylene (Total)	0.3 mg/kg	103	VOC	2 to 9	7 to 10	Y		100 to 109	4	Y	ND	4	Y		1	Y					0			6	Y	
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y					ND	5	Y		1	Y					0			6	Y	
	1,1,1-trichloroethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y		84 to 108	5	Y	ND	5	Y		1	Y					0			6	Y	
	1,1,2,2-tetrachloroethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y					ND	5	Y		1	Y					0			6	Y	
	1,1,2-trichloroethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y					ND	5	Y		1	Y										

	Merphos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Mevinphos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Monocrotophos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Naled		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Omethoate		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Parathion		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Parathion methyl		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Phorate		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Pirimiphos methyl		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Pyrazophos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Ronnel		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Sulprofos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Terbufos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Tetrachlorvinphos		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Tokuthion		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
	Trichloronate		0	SVOC			Y		0			0		0	N		0		0		0		0		0	N
Other	% Moisture 103oC	1%	271	Other	1 to 7	2 to 10	Y		0			0		23	31	Y		0		0		0		48	12	N
	Moisture		0	Other	3 to 6	3 to 7	Y		0			0			0	N		0		0		0		0		N
PAHs in Soil	Benzo(b,j,k)fluoranthene		0	Other	3 to 6	3 to 7	Y		0		ND	2	Y		2	Y		0		0		0		0		N
PFAS	13C2-4:2 FTS (surr.)		0	Other			Y		80 to 117	2	Y			0	N	to 176	*Not Determined	26	N		0		0		0	N
	13C2-6:2 FTS (surr.)		0	Other			Y		93 to 123	2	Y			0	N			41 to 288	26	N		0		0	N	
	13C2-8:2 FTS (surr.)		0	Other			Y		101 to 122	2	Y			0	N			11 to 189	26	N		0		0	N	
	13C2-PFDoDA (surr.)		0	Other			Y		105 to 112	2	Y			0	N			66 to 164	26	N		0		0	N	
	13C2-PFTEdA (surr.)		0	Other			Y		87 to 108	2	Y			0	N			55 to 166	26	N		0		0	N	
	13C2-PFUnDA (surr.)		0	Other			Y		108 to 114	2	Y			0	N			57 to 153	26	N		0		0	N	
	13C3-PFBS (surr.)		0	Other			Y		101 to 103	2	Y			0	N			76 to 133	26	N		0		0	N	
	13C4-PFBA (surr.)		0	Other			Y		101 to 107	2	Y			0	N			69 to 124	26	N		0		0	N	
	13C4-PFHpA (surr.)		0	Other			Y		114 to 122	2	Y			0	N			67 to 132	26	N		0		0	N	
	13C4-PFOS		0	Other			Y		99 to 101	2	Y			0	N			97 to 111	6	Y		0		0	N	
	13C3-PFHxA (surr.)		0	SVOC			Y		104 to 118	2	Y			0	N			66 to 131	26	N		0		0	N	
	13C3-PFHxA (surr.)		0	Other			Y		104 to 106	2	Y			0	N			64 to 137	26	N		0		0	N	
	13C3-PFPeA (surr.)		0	Other			Y							0	N			62 to 130	20	N		0		0	N	
	13C3-PFPA (surr.)		0	SVOC			Y							0	N			67 to 142	20	N		0		0	N	
	13C8-FOSA (surr.)		0	Other			Y		102 to 131	2	N			0	N			62 to 143	26	N		0		0	N	
	13C8-PFOA (surr.)		0	Other			Y							0	N			69 to 126	20	N		0		0	N	
	18O2-PFHxS (surr.)		0	Other			Y		84 to 90	2	Y			0	N			70 to 133	26	N		0		0	N	
	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTS)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		98 to 136	4	N	ND	3	Y		2	Y			82 to 124	3	Y		0	1	Y
	1H,1H,2H,2H-perfluorododecanesulfonic acid	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		84 to 109	4	Y	ND	3	Y		2	Y			77 to 146	3	N		0	1	Y
	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		106 to 107	4	Y	ND	3	Y		2	Y			103 to 111	3	Y		0	1	Y
	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	0.01 mg/kg	19	Other	3 to 10	6 to 10	Y		102 to 124	4	Y	ND	3	Y		2	Y			109 to 122	3	Y		0	1	Y
	2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		88 to 120	4	Y	ND	3	Y		2	Y			88 to 126	3	Y		0	1	Y
	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol	0.005 mg/kg	19	SVOC	3 to 10	6 to 10	Y		93 to 134	4	N	ND	3	Y		2	Y			105 to 135	3	N		0	1	Y
	D3-N-MeFOSA (surr.)		0	Other			Y		105 to 108	2	Y			0	N			56 to 115	26	N		0		0	0	N
	D3-N-MeFOSAA (surr.)		0	Other			Y		112 to 114	2	Y			0	N			50 to 283	26	N		0		0	0	N
	D5-N-EtFOSA (surr.)		0	Other			Y		100 to 104	2	Y			0	N			59 to 155	26	N		0		0	0	N
	D7-N-MeFOSE (surr.)		0	Other			Y		98 to 122	2	Y			0	N			55 to 160	26	N		0		0	0	N
	D9-N-EtFOSE (surr.)		0	Other			Y		100 to 124	2	Y			0	N			58 to 132	26	N		0		0	0	N
	N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		92 to 116	4	Y	ND	3	Y		2	Y			104 to 121	3	Y		0	1	Y
	N-ethyl-perfluoroctanesulfonamidoacetic acid	0.01 mg/kg	19	Other	3 to 10	6 to 10	Y		94 to 121	4	Y	ND	3	Y		2	Y			87 to 121	3	Y		0	1	Y
	N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		103 to 125	4	Y	ND	3	Y		2	Y			103 to 130	3	N		0	1	Y
	N-methyl-perfluoroctanesulfonamidoacetic acid	0.01 mg/kg	19	Other	3 to 10	6 to 10	Y		69 to 110	4	N	ND	3	Y		2	Y			69 to 115	3	N		0	1	Y
	Perfluorobutanesulfonic acid (PFBS)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		103 to 113	4	Y	ND	3	Y		2	Y			106 to 116	3	Y		0	1	Y
	Perfluorobutanoic acid (PFBA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		95 to 117	4	Y	ND	3	Y		2	Y			95 to 118	3	Y		0	1	Y
	Perfluorodecanesulfonic acid (PFDS)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		79 to 134	4	N	ND	3	Y		200	2	Y		86 to 121	3	Y		0	1	Y
	Perfluorodecanoic acid (PFDA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		101 to 130	4	N	ND	3	Y		2	Y			113 to 120	3	Y		0	1	Y
	Perfluorododecanoic acid (PFDoA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		103 to 114	4	Y	ND	3	Y		2	Y			102 to 113	3	Y		0	1	Y
	Perfluoroheptanesulfonic acid (PFHpS)	0.005 mg/kg	19	SVOC	3 to 10	6 to 10	Y		100 to 137	4	N	ND	3	Y		200	2	Y		111 to 113	3	Y		0	1	Y
	Perfluoroheptanoic acid (PFHpA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		101 to 110	4	Y	ND	3	Y		2	Y			105 to 112	3	Y		0	1	Y
	Perfluorohexanesulfonic acid (PFHxS)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		104 to 131	4	N	ND	3	Y		200	2	N		105 to 124	3	Y		0	1	Y
	Perfluorohexanoic acid (PFHxA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		91 to 113	4	Y	ND	3	Y		0	2	Y		94 to 120	3	Y		0	1	Y
	Perfluorononanesulfonic acid (PFNS)	5 UG/KG	19	Other	3 to 10	6 to 10	Y		111 to 143	2	N	ND	2	Y		0	N			104 to 138	2	N		0	1	Y
	Perfluorononanoic acid (PFNA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		98 to 122	4	Y	ND	3	Y		2	Y			103 to 133	3	N		0	1	Y
	Perfluorooctanesulfonamide (FOSA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		86 to 139	4	N	ND	3	Y		2	Y			93 to 123	3	Y		0	1	Y
	Perfluorooctanesulfonic acid (PFOS)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		105 to 134	4	N	ND	3	Y		200	2	Y		107 to 127	3	Y		0	1	Y
	Perfluorooctanoic acid (PFOA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		97 to 117	4	Y	ND	3	Y		0	2	Y		101 to 118	3	Y		0	1	Y
	Perfluoropentanesulfonic acid (PFPeS)	0.005 mg/kg	19	SVOC	3 to 10	6 to 10	Y		116 to 121	4	Y	ND	3	Y		200	2	Y		104 to 135	3	N		0	1	Y
	Perfluoropentanoic acid (PFPeA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		101 to 127	4	Y	ND	3	Y		2	Y			89 to 110	3	Y		0	1	Y
	Perfluoropropanesulfonic acid (PFPrS)	5 UG/KG	19	Other	3 to 10	6 to 10	Y		104 to 122	2	Y	ND	2	Y		0	N			107 to 130	2	N		0	1	Y
	Perfluorotetradecanoic acid (PFTeDA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		98 to 129	4	Y	ND	3	Y		2	Y			99 to 136	3	N		0	1	Y
	Perfluorotridecanoic acid (PFTrDA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		101 to 130	4	N	ND	3	Y		2	Y			100 to 133	3	N		0	1	Y
	Perfluoroundecanoic acid (PFUnA)	0.005 mg/kg	19	Other	3 to 10	6 to 10	Y		102 to 125	4	Y	ND	3	Y		2	Y			115 to 135	3	N		0	1	Y
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.005 mg/kg																								

Category	Compound	Concentration	Units	Method	2 to 9	7 to 10	Y	0	1	Y	1	Y	0	0	0	0	0	0	0	4	Y				
PCBs (Total)		0.1 mg/kg	65	SVOC	2 to 9	7 to 10	Y	0	1	Y	1	Y	0	0	0	0	0	0	0	4	Y				
Polycyclic Aromatic Hydrocarbons	Acenaphthene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	85 to 103	4	Y	ND	6	Y	200	17	Y	0	0	76 to 87	6	Y	0	10	Y	
	Acenaphthylene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	84 to 105	4	Y	ND	6	Y	200	17	Y	0	0	72 to 89	6	Y	0	10	Y	
	Anthracene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	85 to 103	4	Y	ND	6	Y	200	17	Y	0	0	76 to 96	6	Y	0	10	Y	
	Benzo(a)anthracene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	80 to 101	4	Y	ND	6	Y	200	17	Y	0	0	73 to 90	6	Y	0	75	10	N
	Benzo(a)pyrene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	74 to 118	7	Y	ND	6	Y	200	17	N	0	0	72 to 116	7	Y	0	109	10	N
	Benzo(a)pyrene TEQ (lower bound ¹)	0.5 mg/kg	225	SVOC	1 to 8	3 to 10	Y		0	0	0	0	2	Y	0	0	0	0	0	129	10	0	10	N	
	Benzo(a)pyrene TEQ (medium bound ¹)	0.5 mg/kg	225	SVOC	1 to 8	3 to 10	Y		0	0	0	0	2	Y	0	0	0	0	0	123	10	0	10	N	
	Benzo(a)pyrene TEQ (upper bound ¹)	0.5 mg/kg	225	SVOC	1 to 8	3 to 10	Y		0	0	0	0	2	Y	0	0	0	0	0	80	10	0	10	N	
	Benzo(b)fluoranthene	0.5 mg/kg	225	SVOC	2 to 9	7 to 10	Y	72 to 106	4	Y	ND	4	Y	200	15	Y	0	0	75 to 90	6	Y	0	75	10	N
	Benzo(g,h)perylene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	75 to 98	4	Y	ND	6	Y	200	17	N	0	0	77 to 104	6	Y	0	123	10	N
	Benzo(k)fluoranthene	0.5 mg/kg	225	SVOC	2 to 9	7 to 10	Y	85 to 113	4	Y	ND	4	Y	200	15	Y	0	0	76 to 104	6	Y	0	100	10	N
	Chrysene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	79 to 126	7	Y	ND	6	Y	200	17	Y	0	0	81 to 111	7	Y	0	100	10	N
	Dibenz(a,h)anthracene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	78 to 88	4	Y	ND	6	Y	200	17	Y	0	0	76 to 117	6	Y	0	10	Y	
	Fluoranthene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	88 to 118	7	Y	ND	6	Y	200	17	N	0	0	70 to 118	7	N	0	147	10	N
	Fluorene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	71 to 115	7	Y	ND	6	Y	200	17	Y	0	0	75 to 120	7	Y	0	10	Y	
	Indeno(1,2,3-c,d)pyrene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	71 to 105	4	Y	ND	6	Y	200	17	Y	0	0	74 to 92	6	Y	0	117	10	N
	PAHs (Total)	0.5 mg/kg	225	SVOC	1 to 8	7 to 10	Y		0	0	0	0	0	N	0	0	0	0	0	190	10	0	10	N	
	Phenanthrene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	83 to 114	7	Y	ND	6	Y	200	17	Y	0	0	71 to 105	7	Y	0	117	10	N
	Pyrene	0.5 mg/kg	225	SVOC	2 to 9	3 to 10	Y	88 to 111	7	Y	ND	6	Y	200	17	N	0	0	72 to 120	7	Y	0	147	10	N
	Total Positive PAHs		0	0	SVOC	3 to 6	3 to 7	Y		0	0	0	2	Y	0	0	0	0	0	0	0	0	0	0	N
Solvents	2-Propanone (Acetone)	0.5 mg/kg	100	Other	2 to 9	7 to 10	Y		0	0	3	Y	0	0	N	0	0	0	0	0	0	0	6	Y	
SPOCAS	<2mm Fraction	0.005 G	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N	
	>2mm Fraction	0.005 G	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N	
	Analysed Material	0.1 %	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N	
	Extraneous Material	0.1 %	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N	
	HCl Extractable Sulfur Correction Factor	1 FACTOR	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N	
	sulfidic - Acid Reacted Ca equiv. 5% pyrite	0.02 % S	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N	
sulfidic - TSA equiv. 5% pyrite	0.02 % PYRITE S	3	Other	2	2 to 8	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	N		
Surrogate	13C8-PFOS (surr.)	0	0	SVOC		Y		0	0	0	0	0	N	43 to 142	20	N	0	0	0	0	0	0	0	N	
	4-Terphenyl-d14	0	0	SVOC		Y	100 to 117	3	Y	0	0	0	N	52 to 146	257	N	0	0	0	0	0	0	0	N	
	D5-N-EtFOSAA (surr.)	0	0	SVOC		Y		0	0	0	0	0	N	57 to 246	20	N	0	0	0	0	0	0	0	N	
	Surrogate 2-fluorobiphenyl	0	0	SVOC		Y		0	0	0	0	0	N	54 to 150	237	N	0	0	0	0	0	0	0	N	
	Surrogate 4-BFB	0	0	VOC		Y	92 to 98	3	Y	0	0	0	N	58 to 135	123	N	0	0	0	0	0	0	0	N	
	Surrogate aaa-Trifluorotoluene	0	0	SVOC		Y	108 to 108	2	Y	0	0	0	N	88 to 108	20	Y	0	0	0	0	0	0	0	N	
	Surrogate Dibromofluoromethane	0	0	VOC		Y	98 to 103	3	Y	0	0	0	N	84 to 103	14	Y	0	0	0	0	0	0	0	N	
	Surrogate Dibutylchloroendate	0	0	SVOC		Y		0	0	0	0	0	N	50 to 149	119	N	0	0	0	0	0	0	0	N	
	Surrogate o-Terphenyl	0	0	SVOC		Y	75 to 105	2	Y	0	0	0	N	75 to 113	11	Y	0	0	0	0	0	0	0	N	
	Surrogate TCMX	0	0	SVOC		Y	94 to 94	2	Y	0	0	0	N	54 to 135	137	N	0	0	0	0	0	0	0	N	
Surrogate toluene-d8	0	0	VOC		Y	98 to 100	3	Y	0	0	0	N	50 to 141	120	N	0	0	0	0	0	0	0	N		
TPHs (NEPC 1999)	C10-C14 Fraction	20 mg/kg	103	SVOC	2 to 9	6 to 10	Y	86 to 127	4	Y	ND	3	Y	13	Y	0	0	84 to 130	9	N	0	0	6	Y	
	C10-C36 Fraction (Total)	50 mg/kg	103	SVOC	1 to 8	7 to 10	Y		0	0	0	0	N	0	0	0	0	0	15	6	Y	0	6	Y	
	C15-C28 Fraction	50 mg/kg	103	SVOC	2 to 9	6 to 10	Y	78 to 113	2	Y	ND	3	Y	9	13	Y	0	0	80 to 80	1	Y	0	0	6	Y
	C29-C36 Fraction	50 mg/kg	103	SVOC	2 to 9	6 to 10	Y	100 to 123	2	Y	ND	3	Y	36	13	N	0	0	114 to 114	1	Y	0	15	6	Y
	C6-C9 Fraction	20 mg/kg	103	VOC	2 to 9	7 to 10	Y	86 to 109	5	Y	ND	4	Y	8	Y	0	0	71 to 130	9	N	0	0	6	Y	
TRHs (NEPC 2013)	>C10-C16 Fraction	50 mg/kg	103	SVOC	2 to 9	6 to 10	Y	84 to 122	5	Y	ND	3	Y	13	Y	0	0	84 to 123	9	Y	0	0	6	Y	
	>C10-C16 less Naphthalene (F2)	50 mg/kg	103	SVOC	1 to 8	6 to 10	Y		0	0	0	0	Y	1	Y	0	0	0	0	0	0	0	6	Y	
	>C10-C40 Fraction (Total)	100 mg/kg	103	SVOC	2 to 9	6 to 10	Y		0	0	0	0	Y	1	Y	0	0	0	0	0	0	0	6	Y	
	>C16-C24 Fraction	100 mg/kg	103	SVOC	2 to 9	6 to 10	Y	78 to 113	2	Y	ND	3	Y	200	13	Y	0	0	80 to 80	1	Y	0	0	6	Y
	>C34-C40 Fraction	100 mg/kg	103	SVOC	2 to 9	6 to 10	Y	100 to 123	2	Y	ND	3	Y	200	13	Y	0	0	114 to 114	1	Y	0	0	6	Y
	C6-C10 Fraction	20 mg/kg	103	VOC	2 to 9	7 to 10	Y	86 to 114	5	Y	ND	4	Y	200	8	Y	0	0	80 to 128	9	Y	0	0	6	Y
	C6-C10 less BTEX (F1)	20 mg/kg	103	VOC	1 to 8	7 to 10	Y		0	0	0	0	0	Y	1	Y	0	0	0	0	0	0	0	6	Y
Trihalomethanes	Bromodichloromethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y	85 to 94	2	Y	ND	5	Y	1	Y	0	0	95 to 95	1	Y	0	0	6	Y	
	Chloroform	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y	89 to 94	2	Y	ND	5	Y	1	Y	0	0	92 to 92	1	Y	0	0	6	Y	
	Dibromochloromethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y	77 to 90	2	Y	ND	5	Y	1	Y	0	0	91 to 91	1	Y	0	0	6	Y	
	Tribromomethane	0.5 mg/kg	100	VOC	2 to 9	7 to 10	Y		0	0	ND	5	Y	1	Y	0	0	0	0	0	0	0	0	6	Y
VOC	Total MA ¹¹	0.5 MG/KG	100	Other	1 to 8	7 to 10	Y		0	0	0	0	N	0	0	0	0	0	0	0	0	0	6	Y	
BTEXN	Benzene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y	87 to 101	5	Y	ND	7	Y	1	Y	0	0	88 to 124	6	Y	ND	8	Y	2	Y
	Ethylbenzene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y	78 to 106	5	Y	ND	7	Y	1	Y	0	0	80 to 110	6	Y	ND	8	Y	2	Y
	Naphthalene	0.00001 to 0.01 mg/L	26	VOC	1 to 8	2 to 9	Y																		

	Chlorobenzene	0.001 mg/L	13	Other	2 to 7	3 to 9	Y		0		ND	4	Y		0	N		0			0		ND	4	Y		2	Y	
	Hexachlorobenzene		0	SVOC	5	7	Y		0			0			0	N		0			0		ND	1	Y		0	N	
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVIC	5 µg/L	13	VOC	0 to 3	7 to 9	Y		0			0			0	N		0			0		ND	4	Y		2	Y	
	Organochlorine Pesticides EPAVIC		0	SVOC	1	7	Y		0			0			0	N		0			0		ND	1	Y		0	N	
	Other Chlorinated Hydrocarbons EPAVIC	5 µg/L	13	VOC	0 to 3	7 to 9	Y		0			0			0	N		0			0		ND	4	Y		2	Y	
	Other Organochlorine Pesticides EPAVIC		0	SVOC	1	7	Y		0			0			0	N		0			0		ND	1	Y		0	N	
Ionic Balance	EC_Lab	1 µS/cm	13	Other	2 to 5	7 to 9	Y		0			0		5	2	Y		0			0		6.8 to 6.8 µS/cm	1	N		16	2	Y
	pH_Lab		13	Other	2 to 5	2 to 9	Y	102 to 102	1	Y		0		0	2	Y		0			0		5 to 5	1	N		51	2	N
	Total Alkalinity (as CaCO3)	20 mg/L	13	Other	2 to 5	2 to 9	Y	96 to 96	2	Y	ND	1	Y	0	2	Y		0		118 to 122	3	Y		1	Y		22	2	Y
Major Anions	Bicarbonate Alkalinity (as CaCO3)	20 mg/L	13	Other	2 to 5	3 to 9	Y		0		ND	1	Y	0	2	Y		0		87 to 122	3	Y		1	Y		22	2	Y
	Carbonate Alkalinity (as CaCO3)	10 mg/L	13	Other	2 to 5	7 to 9	Y	91 to 91	1	Y		0		0	2	Y		0		79 to 79	1	Y		1	Y		2	Y	
	Carbonate Alkalinity (as CO3)		0	Other	3	3	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	Hydroxide Alkalinity (as CaCO3)	20 mg/L	13	Other	2 to 5	3 to 9	Y		0		ND	1	Y	0	2	Y		0			0		ND	1	Y		2	Y	
Metals & Metalloids	Arsenic (Total)	0.001 mg/L	13	Other	1 to 7	1 to 9	Y	97 to 102	4	Y	ND	4	Y	1	1	Y		0		90 to 108	3	Y		6	Y		0	2	Y
	Cadmium	0.0002 mg/L	13	Other	1 to 7	1 to 9	Y	98 to 107	4	Y	ND	4	Y	1	1	Y		0		90 to 110	3	Y		6	Y		2	Y	
	Chromium (Total)	0.001 mg/L	13	Other	1 to 7	1 to 9	Y	97 to 105	4	Y	ND	4	Y	0	1	Y		0		90 to 110	3	Y		6	Y		0	2	Y
	Copper	0.001 mg/L	13	Other	1 to 7	1 to 9	Y	94 to 103	4	Y	ND	4	Y	0	1	Y		0		86 to 106	3	Y		6	Y		2	Y	
	Lead	0.001 mg/L	13	Other	1 to 7	1 to 9	Y	96 to 103	4	Y	ND	4	Y	40	1	N		0		90 to 108	3	Y		6	Y		0	2	Y
	Mercury (Inorganic)	0.0001 mg/L	13	Other	1 to 7	1 to 9	Y	96 to 106	4	Y	ND	4	Y	1	1	Y		0		95 to 110	3	Y		6	Y		2	Y	
	Nickel	0.001 mg/L	13	Other	1 to 7	1 to 9	Y	96 to 103	4	Y	ND	4	Y	0	1	Y		0		94 to 109	3	Y		6	Y		0	2	Y
	Zinc	0.005 mg/L	13	Other	1 to 7	1 to 9	Y	98 to 103	4	Y	ND	4	Y	3	1	Y		0		88 to 108	3	Y		6	Y		5	2	Y
Miscellaneous Hydrocarbons	1,2-dibromoethane	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	2-Butanone (MEK)	0.001 mg/L	13	VOC	2 to 5	7 to 9	Y		0		ND	3	Y	0	0	N		0			0		ND	4	Y		2	Y	
	4-Methyl-2-pentanone (MIBK)	0.001 mg/L	13	VOC	2 to 5	7 to 9	Y		0		ND	3	Y	0	0	N		0			0		ND	4	Y		2	Y	
	Bromomethane	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND to 0.001 mg/l	4	N	0	0	N		0			0		ND	4	Y		2	Y	
	Cyclohexane	0	0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	Dibromomethane	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	Iodomethane	0.001 mg/L	13	VOC	2 to 5	7 to 9	Y		0		ND	3	Y	0	0	N		0			0		ND	4	Y		2	Y	
Miscellaneous Industrial Chemicals	Hexachlorobutadiene		0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
Miscellaneous Inorganics	Electrical Conductivity		0	Other	2 to 3	2 to 3	Y	105 to 105	1	Y	ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
Monocyclic Aromatic Hydrocarbons	1,2,4-trimethyl benzene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	1,3,5-trimethyl benzene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	4-isopropyl toluene		0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	Bromobenzene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	Isopropylbenzene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	n-butyl benzene	0	0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	n-propyl benzene	0	0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	sec-butyl benzene	0	0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	Styrene	0.001 mg/L	13	VOC	2 to 7	3 to 9	Y		0		ND	4	Y	0	0	N		0			0		ND	4	Y		2	Y	
	Tert-butyl benzene	0	0	VOC	2 to 7	3 to 8	Y		0		ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
Non-Metallic Inorganics	Ammonia		0	Other	2 to 3	2 to 3	Y	104 to 104	1	Y	ND	1	Y	0	0	N		0			0		0	0	Y		0	N	
	Ammonia (as N)	0.01 mg/L	13	Other	2 to 5	7 to 9	Y	97 to 99	2	Y	ND	2	Y	0	0	N		0		100 to 101	2	Y		1	Y		20	2	Y
	Nitrate (as N)	0.02 mg/L	13	Other	2 to 5	2 to 9	Y	88 to 101	3	Y	ND	3	Y	0	0	N		0		94 to 98	2	Y		1	Y		0	2	Y
	Nitrite (as N)	0.02 mg/L	13	Other	2 to 5	2 to 9	Y	107 to 111	3	Y	ND	3	Y	0	0	N		0		100 to 103	2	Y		1	Y		0	2	Y
Organic Sulfur Compounds	Carbon disulfide	0.001 mg/L	13	VOC	2 to 5	7 to 9	Y		0		ND	3	Y	0	0	N		0			0		ND	4	Y		2	Y	
Organochlorine Pesticides	4,4-DDE		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Aldrin		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Aldrin + Dieldrin (Sum of Total)		0	SVOC	1	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	alpha-BHC		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	beta-BHC		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Chlordane		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	DDD		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	DDT		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	DDT+DDE+DDD (Sum of Total)		0	SVOC	1	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	delta-BHC		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Dieldrin		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Endosulfan alpha		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Endosulfan beta		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Endosulfan sulphate		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Endrin		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Endrin aldehyde		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Endrin ketone		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Heptachlor		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Heptachlor Epoxide		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Lindane		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Methoxychlor		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
	Toxaphene		0	SVOC	5	7	Y		0		0	0		0	0	N		0			0		ND	1	Y		0	N	
PAHs in Soil	Benzo(b,j,k)fluoranthene		0	Other	1 to 6	2 to 7	Y		0		ND	1	Y	1	1	Y		0			0		0	0	Y		0	N	
PFAS	13C2-4:2 FTS (surr.)		0	Other			Y		0		0	0		0	0	N	59 to 16												

	N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	0.05 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	N-methyl-perfluorooctanesulfonamidoacetic acid	0.05 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorobutanesulfonic acid (PFBS)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorobutanoic acid (PFBA)	0.05 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorodecanesulfonic acid (PFDS)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorodecanoic acid (PFDA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorododecanoic acid (PFDoA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorooheptanesulfonic acid (PFHpS)	0.01 µg/L	13	SVOC	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluoroheptanoic acid (PFHpA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0		0	2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorohexanesulfonic acid (PFHxS)	0.01 µg/L	13	Other	1 to 6	1 to 9	Y	118 to 118	1	Y	ND	1	Y	22	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorohexanoic acid (PFHxA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorononanesulfonic acid (PFNS)	0.01 µg/L	13	Other	2 to 6	7 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorononanoic acid (PFNA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorooctanesulfonamide (FOSA)	0.05 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorooctanesulfonic acid (PFOS)	0.01 µg/L	13	Other	1 to 6	1 to 9	Y	107 to 107	1	Y	ND	1	Y	0	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorooctanoic acid (PFOA)	0.01 µg/L	13	Other	1 to 6	1 to 9	Y	107 to 107	1	Y	ND	1	Y	0	Y		0		0		0		ND	2	Y		2	Y	
	Perfluoropentanesulfonic acid (PFPeS)	0.01 µg/L	13	SVOC	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluoropentanoic acid (PFPeA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0		0	2	Y		0		0		0		ND	2	Y	100	2	N	
	Perfluoropropanesulfonic acid (PFPrS)	0.01 µg/L	13	Other	2 to 6	7 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorotetradecanoic acid (PFTeDA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluorotridecanoic acid (PFTrDA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Perfluoroundecanoic acid (PFUnA)	0.01 µg/L	13	Other	2 to 6	6 to 9	Y		0		0			2	Y		0		0		0		ND	2	Y		2	Y	
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01 µg/L	13	SVOC	0 to 5	7 to 9	Y		0		0			0	N		0		0		0		ND	2	Y		2	Y	
	Sum of PFASs (n=28)	0.1 µg/L	13	Other	0 to 6	1 to 9	Y		0		0			0	N		0		0		0		ND	2	Y		2	Y	
	Sum of PFHxS and PFOS	0.01 µg/L	13	Other	0 to 6	1 to 9	Y		0		0			0	N		0		0		0		ND	2	Y		2	Y	
	Sum of US EPA PFAS (PFOS + PFOA)*	0.01 µg/L	13	SVOC	0 to 6	1 to 9	Y		0		0			0	N		0		0		0		ND	2	Y		2	Y	
	Sum of WA DER PFAS (n=10)	0.05 µg/L	13	Other	0 to 5	7 to 9	Y		0		0			0	N		0		0		0		ND	2	Y		2	Y	
	PFAS in Soils Extended																												
	Extracted ISTD 13C2 PFDA		0	Other			Y		0		0			0	N		99 to 99	1	Y		0		0				0	N	
	Extracted ISTD 13C3 PFPeA		0	Other			Y		0		0			0	N		98 to 98	1	Y		0		0				0	N	
	Extracted ISTD 13C4 PFOA		0	Other			Y	105 to 105	1	Y	0			0	N		105 to 133	4	N		0		0				0	N	
	Extracted ISTD d5 N EtFOSAA		0	Other			Y		0		0			0	N		110 to 110	1	Y		0		0				0	N	
	Surrogate 13C2 PFOA		0	Other			Y	102 to 102	1	Y	0			0	N		97 to 104	4	Y		0		0				0	N	
	Surrogate 13C8 PFOS		0	Other			Y	96 to 96	1	Y	0			0	N		96 to 100	4	Y		0		0				0	N	
	Polychlorinated Biphenyls																												
	Aroclor 1016		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Aroclor 1221		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Aroclor 1232		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Aroclor 1242		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Aroclor 1248		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Aroclor 1254		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Aroclor 1260		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	PCBs (Total)		0	SVOC	5	7	Y		0		0			0	N						0		ND	1	Y		0	N	
	Polycyclic Aromatic Hydrocarbons																												
	Acenaphthene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	129 to 129	1	Y	ND	2	Y	1	Y						0		105 to 105	1	Y		ND	6	Y
	Acenaphthylene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	114 to 114	1	Y	ND	2	Y	1	Y						0		105 to 105	1	Y		ND	6	Y
	Anthracene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	78 to 78	1	Y	ND	2	Y	1	Y						0		89 to 89	1	Y		ND	6	Y
	Benz(a)anthracene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	79 to 79	1	Y	ND	2	Y	1	Y						0		90 to 90	1	Y		ND	6	Y
	Benzo(a)pyrene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	79 to 104	2	Y	ND	2	Y	1	Y						0		82 to 82	1	Y		ND	6	Y
	Benzo(a)pyrene TEQ (WHO)	0	0	SVOC	1 to 6	2 to 7	Y		0		0			1	Y						0						0	N	
	Benzo(b)fluoranthene	0.00001 to 0.001 mg/L	13	SVOC	2 to 8	7 to 9	Y	81 to 81	1	Y	ND	1	Y	0	N						0		80 to 80	1	Y		ND	6	Y
	Benzo(g,h)perylene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	91 to 91	1	Y	ND	2	Y	1	Y						0		99 to 99	1	Y		ND	6	Y
	Benzo(k)fluoranthene	0.00001 to 0.001 mg/L	13	SVOC	2 to 8	7 to 9	Y	82 to 82	1	Y	ND	1	Y	0	N						0		91 to 91	1	Y		ND	6	Y
	Chrysene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	77 to 84	2	Y	ND	2	Y	1	Y						0		100 to 100	1	Y		ND	6	Y
	Dibenz(a,h)anthracene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	89 to 89	1	Y	ND	2	Y	1	Y						0		75 to 75	1	Y		ND	6	Y
	Fluoranthene	0.00001 to 0.001 mg/L	13	SVOC	1 to 8	2 to 9	Y	98 to 104	2	Y	ND	2	Y	1	Y														

Field Duplicates (SOIL)
 Filter: SDG in('671221')

Chem Group	Chem Name	Units	EQL	671221 Field ID Sampled Date/Time	671221 Interlab_D QA01 12/08/2019	671221 RPD	671221 TP33_0.9-1.0 QA02 12/08/2019	671221 Interlab_D QA02 12/08/2019	671221 RPD	671628 Field ID Sampled Date/Time	671628 Interlab_D QA03 13/08/2019	671628 RPD	671628 TP09_0.0-0.1 QA04 13/08/2019	671628 Interlab_D QA04 13/08/2019	671628 Field ID Sampled Date/Time	671628 Interlab_D QA05 14/08/2019	671628 RPD	671628 TP42_0.0-0.1 QA06 14/08/2019	671628 Interlab_D QA06 14/08/2019	671628 RPD	671628 Field ID Sampled Date/Time	671628 Interlab_D QA07 14/08/2019	671628 RPD		
VOC	Total MAH*	mg/kg	0.5	<0.5			<0.5			<0.5					<0.5			<0.5							
Metals & M	Arsenic (Tot)	mg/kg	2 (Primary): 4 (Interlab)	<2.0	<4.0	0	2.3	<4.0	0	<2.0	<4.0	0	2.5	5.0	67	3.7	6.0	47	<2.0	<4.0	0	<2.0	<4.0	0	
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	
	Chromium	mg/kg	5 (Primary): 1 (Interlab)	<5.0	23.0	129	7.4	5.0	39		<5.0	2.0	0	7.3	7.0	4	8.8	11.0	22	7.1	5.0	35	5.5	6.0	9
	Copper	mg/kg	5 (Primary): 1 (Interlab)	<5.0	12.0	82	<5.0	2.0	0		<5.0	2.0	0	6.4	6.0	6	<5.0	<1.0	0	5.5	4.0	32	<5.0	1.0	0
	Lead	mg/kg	5 (Primary): 1 (Interlab)	<5.0	8.0	46	15.0	8.0	61		<5.0	4.0	0	13.0	9.0	36	7.0	8.0	13	8.0	6.0	29	<5.0	4.0	0
	Mercury (In)	mg/kg	0.1	2.1	<0.1	148	<0.1	<0.1	0		<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	0.2	0.1	67	<0.1	<0.1	0
	Nickel	mg/kg	5 (Primary): 1 (Interlab)	<5.0	19.0	117	<5.0	1.0	0		<5.0	<1.0	0	<5.0	5.0	0	<5.0	<1.0	0	<5.0	3.0	0	<5.0	1.0	0
Zinc	mg/kg	5 (Primary): 1 (Interlab)	<5.0	19.0	117	16.0	23.0	36		<5.0	5.0	0	36.0	21.0	53	25.0	3.0	157	41.0	37.0	10	15.0	11.0	31	
stalloids	TPHs (NEPC)	C6-C9 Fract	mg/kg	20 (Primary): 25 (Interlab)	<20.0	<25.0	0	<20.0	<25.0	0	<20.0	<25.0	0			<20.0	<25.0	0	<20.0	<25.0	0				
		C10-C14 Fra	mg/kg	20 (Primary): 50 (Interlab)	<20.0	<50.0	0	<20.0	<50.0	0	<20.0	<50.0	0			<20.0	<50.0	0	<20.0	<50.0	0				
		C15-C28 Fra	mg/kg	50 (Primary): 100 (Interlab)	<50.0	<100.0	0	<50.0	<100.0	0	<50.0	<100.0	0			<50.0	<100.0	0	<50.0	<100.0	0				
		C29-C36 Fra	mg/kg	50 (Primary): 100 (Interlab)	<50.0	<100.0	0	<50.0	<100.0	0	<50.0	<100.0	0			<50.0	<100.0	0	58.0	<100.0	0				
		C10-C36 Fra	mg/kg	50	<50.0			<50.0			<50.0					<50.0			58.0						
1999)	TRHs (NEPC)	>C10-C16 Fr	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0			<50.0	<50.0	0	<50.0	<50.0	0				
		>C16-C34 Fr	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0			<100.0	<100.0	0	<100.0	<100.0	0				
		>C34-C40 Fr	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0	<100.0	<100.0	0			<100.0	<100.0	0	<100.0	<100.0	0				
		>C10-C40 Fr	mg/kg	100 (Primary): 50 (Interlab)	<100.0	<50.0	0	<100.0	<50.0	0	<100.0	<50.0	0			<100.0	<50.0	0	<100.0	<50.0	0				
		>C10-C16 le	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0	<50.0	<50.0	0			<50.0	<50.0	0	<50.0	<50.0	0				
		C6-C10 Frac	mg/kg	20 (Primary): 25 (Interlab)	<20.0	<25.0	0	<20.0	<25.0	0	<20.0	<25.0	0			<20.0	<25.0	0	<20.0	<25.0	0				
		C6-C10 less	mg/kg	20 (Primary): 25 (Interlab)	<20.0	<25.0	0	<20.0	<25.0	0	<20.0	<25.0	0			<20.0	<25.0	0	<20.0	<25.0	0				
2013)	BTEXN	Benzene	mg/kg	0.1 (Primary): 0.2 (Interlab)	<0.1	<0.2	0	<0.1	<0.2	0	<0.1	0.2	67			<0.1	<0.2	0	<0.1	<0.2	0				
		Ethylbenzen	mg/kg	0.1 (Primary): 1 (Interlab)	<0.1	<1.0	0	<0.1	<1.0	0	<0.1	<1.0	0			<0.1	<1.0	0	<0.1	<1.0	0				
		Toluene	mg/kg	0.1 (Primary): 0.5 (Interlab)	<0.1	<0.5	0	<0.1	<0.5	0	<0.1	<0.5	0			<0.1	<0.5	0	<0.1	<0.5	0				
		Xylene (o)	mg/kg	0.1 (Primary): 1 (Interlab)	<0.1	<1.0	0	<0.1	<1.0	0	<0.1	<1.0	0			<0.1	<1.0	0	<0.1	<1.0	0				
		Xylene (m &	mg/kg	0.2 (Primary): 2 (Interlab)	<0.2	<2.0	0	<0.2	<2.0	0	<0.2	<2.0	0			<0.2	<2.0	0	<0.2	<2.0	0				
		Xylene (Tot)	mg/kg	0.3 (Primary): 3 (Interlab)	<0.3	<3.0	0	<0.3	<3.0	0	<0.3	<3.0	0			<0.3	<3.0	0	<0.3	<3.0	0				
		Naphthalen	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0			<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	
		Naphthalen	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Polycyclic A	Acenaphthe	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
		Acenaphthy	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Anthracene		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	
Benzo(a)anth		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	1.1	<0.1	153		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Benzo(a)pyr		mg/kg	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.05	0	1.7	0.05	148		<0.5	<0.05	0	<0.5	<0.05	0	<0.5	<0.05	0	<0.5	<0.05	0	<0.5	<0.05	0
Benzo(a)pyr		mg/kg	0.5	<0.5	<0.5	0	2.3	<0.5	129		<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(a)pyr		mg/kg	0.5	0.6	<0.5	18	2.5	<0.5	133		0.6	<0.5	18	0.6	<0.5	18	0.6	<0.5	18	0.6	<0.5	18	0.6	<0.5	18
Benzo(a)pyr		mg/kg	0.5	1.2	<0.5	82	2.8	<0.5	139		1.2	<0.5	82	1.2	<0.5	82	1.2	<0.5	82	1.2	<0.5	82	1.2	<0.5	82
Benzo(b,j)fl		mg/kg	0.5	<0.5			1.1				<0.5			<0.5			<0.5			<0.5			<0.5		
Benzo(g,h,i)		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	2.1	<0.1	168		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Benzo(k)flud		mg/kg	0.5	<0.5			1.5				<0.5			<0.5			<0.5			<0.5			<0.5		
Chrysene		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	1.5	<0.1	142		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Dibenz(a,h)		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Fluoranthene		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	3.3	0.2	138		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Fluorene		mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
Indeno(1,2,3	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	1.9	<0.1	152		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	
PAHs (Total)	mg/kg	0.5	<0.5			19.4				<0.5			<0.5			<0.5			<0.5			<0.5			
Phenanthre	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	1.9	<0.1	156		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	
Pyrene	mg/kg	0.5 (Primary): 0.1 (Interlab)	<0.5	<0.1	0	3.3	0.1	152		<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0	
omatic Hydrocarbons	Organochlor	4,4-DDE	mg/kg	0.05 (Primary): 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0
		Aldrin	mg/kg	0.05 (Primary): 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1													

Field Duplicates (SOIL)
 Filter: SDG in('671221')

SDG	671221	Interlab_D	671221	Interlab_D	671628	Interlab_D	671628	Interlab_D	671628	Interlab_D	671628	Interlab_D	671628	Interlab_D	671628	Interlab_D		
Field ID	BH002/MW02 0.2-0.3	QA01	TP33_0.9-1.0	QA02	BH70/MW08 0.0-0.1	QA03	TP09 0.0-0.1	QA04	BH004/MW03 0.2-0.3	QA05	TP42 0.0-0.1	QA06	TP18 0.0-0.1	QA07	RPD	RPD		
Sampled Date/Time	12/08/2019	12/08/2019	12/08/2019	12/08/2019	13/08/2019	13/08/2019	13/08/2019	13/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019	14/08/2019		
1,3-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Bromochloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Carbon tetrachloride	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Chloroethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Chloromethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Dichlorodifluoromethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Dichloromethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Trichlorofluoromethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	
Alkanes																		
Chlorinated	1,1-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	3-chloropropane	mg/kg	0.5	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	4-chlorotoluene	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	cis-1,2-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	cis-1,3-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Tetrachloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	trans-1,2-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	trans-1,3-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Trichloroethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Vinyl Chloride	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
Alkenes																		
Solvents	2-Propanone	mg/kg	0.5	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
Polychlorinated Biphenyls																		
Aroclor	1016	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Aroclor	1221	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Aroclor	1231	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Aroclor	1241	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Aroclor	1248	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Aroclor	1254	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Aroclor	1260	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
PCBs (Total)	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	
Polycyclic Aromatic Hydrocarbons																		
Monocyclic	1,2,4-trimethyl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	1,3,5-trimethyl	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Bromobenzene	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Isopropylbenzene	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Styrene	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
Aromatic Hydrocarbons																		
Miscellaneous	1,2-dibromodiphenyl ether	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	2-Butanone	mg/kg	0.5	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	4-Methyl-2-pentanone	mg/kg	0.5	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Bromomethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Dibromomethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Iodomethane	mg/kg	0.5	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
Aliphatic Hydrocarbons																		
Chlorinated	1,2-Dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	1,3-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	1,4-dichloro	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Chlorobenzene	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Hexachlorocyclopentadiene	mg/kg	0.05 (Primary): 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0	<0.05	<0.1	0
Benzenes																		
Trihalomethanes	Bromodichloromethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Chloroform	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Dibromochloromethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
	Tribromomethane	mg/kg	0.5 (Primary): 1 (Interlab)	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0
Asbestos																		
Asbestos	Approx. Sam	G				627.0							504.0			713.0		
	Asbestos frd	%w/w				0.0							0.0			0.0		
	Asbestos frd	%w/w				0.0							0.0			0.0		
Asbestos	Asbestos Re	COMMENT				1.0							1.0			1.0		
Asbestos	Mass ACM	G				0.0							0.0			0.0		
	Mass Asbes	G				0.0							0.0			0.0		
	Mass FA	G				0.0							0.0			0.0		
	Mass Asbes	G				0.0							0.0			0.0		
	Mass AF	G				0.0							0.0			0.0		
	Mass Asbes	G				0.0							0.0			0.0		
	Mass Asbes	G				0.0							0.0			0.0		
Asbestos - T	ACM - Com	COMMENT				1.0							1.0			1.0		
	AF - Comme	COMMENT				1.0							1.0			1.0		
	FA - Comme	COMMENT				1.0							1.0			1.0		
	Organic Fibr	COMMENT				1.0							1.0			1.0		
	Respirable F	COMMENT				1.0							1.0			1.0		
	Synthetic Fil	COMMENT				1.0							1.0			1.0		
Trace Analysis																		
Organic Sulfur Compounds	Carbon disulfide	mg/kg	0.5	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<1.0	0	<0.5	<	

Field Duplicates (WATER)
 Filter: SDG in('672129','671915','673449')

SDG Field ID	672129 MW02	672129 QC01_GME	RPD	672129 MW02	Interlab_D QA01_GME	RPD
Sampled Date/Time	19/08/2019	19/08/2019		19/08/2019	19/08/2019	

Chem_Group	ChemName	Units	EQL	672129 MW02	672129 QC01_GME	RPD	672129 MW02	Interlab_D QA01_GME	RPD	
Metals & Metalloid	Arsenic (Total)	mg/l	0.001	<0.001	<0.001	0	<0.001			
	Cadmium	mg/l	0.0002	<0.0002	<0.0002	0	<0.0002			
	Chromium (Total)	mg/l	0.001	0.002	0.002	0	0.002			
	Copper	mg/l	0.001	<0.001	<0.001	0	<0.001			
	Lead	mg/l	0.001	0.001	0.001	0	0.001			
	Mercury (Inorganic)	mg/l	0.0001	<0.0001	<0.0001	0	<0.0001			
	Nickel	mg/l	0.001	0.003	0.003	0	0.003			
	Zinc	mg/l	0.005	0.04	0.039	3	0.04			
TPHs (NEPC 1999)	C6-C9 Fraction	mg/l	0.02 (Primary): 0.01 (Inte	<0.02	<0.02	0	<0.02	<0.01	0	
	C10-C14 Fraction	mg/l	0.05	0.06	0.13	74	0.06	<0.05	18	
	C15-C28 Fraction	mg/l	0.1	0.2	0.2	0	0.2	<0.1	67	
	C29-C36 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0	
	C10-C36 Fraction (Total)	mg/l	0.1	0.26	0.33	24	0.26			
TRHs (NEPC 2013)	>C10-C16 Fraction	mg/l	0.05	0.18	0.17	6	0.18	<0.05	113	
	>C16-C34 Fraction	mg/l	0.1	0.2	0.2	0	0.2	<0.1	67	
	>C34-C40 Fraction	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0	
	>C10-C40 Fraction (Total)	mg/l	0.1	0.38	0.37	3	0.38			
	>C10-C16 less Naphthalene (F2)	mg/l	0.05	0.18	0.17	6	0.18			
	C6-C10 Fraction	mg/l	0.02 (Primary): 0.01 (Inte	<0.02	<0.02	0	<0.02	<0.01	0	
	C6-C10 less BTEX (F1)	mg/l	0.02	<0.02	<0.02	0	<0.02			
BTEXN	Benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Ethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Toluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Xylene (o)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Xylene (m & p)	mg/l	0.002	<0.002	<0.002	0	<0.002	<0.002	0	
	Xylene (Total)	mg/l	0.003	<0.003	<0.003	0	<0.003			
	Naphthalene	mg/l	0.01 (Primary): 0.0002 (It	<0.01	<0.01	0	<0.01	<0.0002	0	
	Naphthalene	mg/l	0.001 (Primary): 0.0002 (It	<0.001	<0.001	0	<0.001	<0.0002	0	
	Polycyclic Aromatic	Acenaphthene	mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0
		Acenaphthylene	mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0
Anthracene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Benz(a)anthracene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Benzo(a)pyrene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Benzo(b,j)fluoranthene		mg/l	0.001	<0.001	<0.001	0	<0.001			
Benzo(g,h,i)perylene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Benzo(k)fluoranthene		mg/l	0.001	<0.001	<0.001	0	<0.001			
Chrysene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Dibenz(a,h)anthracene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Fluoranthene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Fluorene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Indeno(1,2,3-c,d)pyrene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
PAHs (Total)		mg/l	0.001	<0.001	<0.001	0	<0.001			
Phenanthrene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Pyrene		mg/l	0.001 (Primary): 0.0001	<0.001	<0.001	0	<0.001	<0.0001	0	
Chlorinated Alkane		1,1,1,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,1-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,1,2,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,1,2-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,1-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,2,3-trichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,2-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,2-dichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,3-dichloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Bromochloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Carbon tetrachloride	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Chloroethane	mg/l	0.001 (Primary): 0.01 (Int	<0.001	<0.001	0	<0.001	<0.01	0	
	Chloromethane	mg/l	0.001 (Primary): 0.01 (Int	<0.001	<0.001	0	<0.001	<0.01	0	
	Dichlorodifluoromethane	mg/l	0.001 (Primary): 0.01 (Int	<0.001	<0.001	0	<0.001	<0.01	0	
Dichloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001				
Trichlorofluoromethane	mg/l	0.001 (Primary): 0.01 (Int	<0.001	<0.001	0	<0.001	<0.01	0		
Chlorinated Alkene	1,1-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	3-chloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001			
	4-chlorotoluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	cis-1,2-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	cis-1,3-dichloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Tetrachloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	trans-1,2-dichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	trans-1,3-dichloropropene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Trichloroethene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Vinyl Chloride	mg/l	0.001 (Primary): 0.01 (Int	<0.001	<0.001	0	<0.001	<0.01	0	
	Solvents	2-Propanone (Acetone)	µg/l	1	<1.0	<1.0	0	<1.0		
PFAS	2-[N-methylperfluoro-1-octane sul	µg/L	0.05	<0.05	<0.05	0	<0.05			
	2-[N-ethylperfluoro-1-octane sulfo	µg/L	0.05	<0.05	<0.05	0	<0.05			
	1H,1H,2H,2H-perfluorohexanesulf	µg/L	0.01	<0.01	<0.01	0	<0.01			
	1H,1H,2H,2H-perfluorooctanesulf	µg/L	0.05 (Primary): 0.01 (Inte	<0.05	<0.05	0	<0.05	<0.01	0	
	1H,1H,2H,2H-perfluorodecane sulf	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	
	1H,1H,2H,2H-perfluorododecane sulf	µg/L	0.01	<0.01	<0.01	0	<0.01			
	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	0	<0.05			
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	0	<0.01			
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01			
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01			
	Perfluorododecanoic acid (PFDoA)	µg/L	0.01	<0.01	<0.01	0	<0.01			
	N-methylperfluoro-1-octane sulfon	µg/L	0.05	<0.05	<0.05	0	<0.05			
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	0.03	100	<0.01			
	N-ethylperfluoro-1-octane sulfona	µg/L	0.05	<0.05	<0.05	0	<0.05			
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	
	N-ethyl-perfluorooctanesulfonami	µg/L	0.05	<0.05	<0.05	0	<0.05			
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01			
	N-methyl-perfluorooctanesulfonari	µg/L	0.05	<0.05	<0.05	0	<0.05			
	Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01			
	Perfluorooctanesulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05			
Perfluoroheptanesulfonic acid (PFH	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Perfluorohexanesulfonic acid (PFH	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Perfluorodecane sulfonic acid (PF	µg/L	0.01	<0.01	<0.01	0	<0.01				
Perfluoroundecanoic acid (PFUnA)	µg/L	0.01	<0.01	<0.01	0	<0.01				
Perfluorotridecanoic acid (PFTeA)	µg/L	0.01	<0.01	<0.01	0	<0.01				
Perfluorotetradecanoic acid (PFTe	µg/L	0.01	<0.01	<0.01	0	<0.01				
Perfluoropentanesulfonic acid (PF	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Sum of US EPA PFAS (PFOS + PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Sum of enHealth PFAS (PFHxS + PF	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0		
Sum of WA DER PFAS (n=10)	µg/L	0.05	<0.05	<0.05	0	<0.05				
Sum of PFASs (n=28)	µg/L	0.1 (Primary): 0.01 (Inter	<0.1	<0.1	0	<0.1	<0.01	0		
Monocyclic Aromat	1,2,4-trimethyl benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	1,3,5-trimethyl benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Bromobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Isopropylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	Styrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
Miscellaneous Hyd	1,2-dibromoethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0	
	2-Butanone (MEK)	mg/l	0.001	<0.001	<0.001	0	<0.001			
	4-Methyl-2-pentanone (MIBK)	mg/l	0.001	<0.001	<0.001	0	<0.001			
	Bromomethane	mg/l	0.001 (Primary): 0.01 (Int	<0.001	<0.001	0	<0.001	<0.01	0	
	Dibromomethane	mg/l	0.001	<0.00						

INSERT TABLE NAME
 Project Number: [Project_Number]
 Project Name: [Project_Name]



Field Duplicates (WATER)
 Filter: ALL

SDG	671628	671628		671628	Interlab_D
Field ID	SW01	QC01_SW	RPD	SW01	QA01-SW
Sampled Date/Time	14/08/2019	14/08/2019		14/08/2019	14/08/2019

Chem_Gro	ChemName	Units	EQL						
Metals & Metalloids	Arsenic (Total)	mg/l	0.001	0.001	0.001	0	0.001	0.001	0
	Cadmium	mg/l	0.0002 (Primary): 0.0001 (Inte	<0.0002	<0.0002	0	<0.0002	<0.0001	0
	Chromium	mg/l	0.001	0.003	0.003	0	0.003	0.002	40
	Copper	mg/l	0.001	<0.001	<0.001	0	<0.001	0.003	100
	Lead	mg/l	0.001	0.004	0.004	0	0.004	0.003	29
	Mercury (Inorganic)	mg/l	0.0001 (Primary): 0.00005	<0.0001	<0.0001	0	<0.0001	<0.0001	0
	Nickel	mg/l	0.001	0.002	0.002	0	0.002	0.001	67
	Zinc	mg/l	0.005 (Primary): 0.001 (Inte	0.021			0.021	0.015	33
etalloids									
TPHS (NEPC)	C6-C9 Fract	mg/l	0.02 (Primary): 0.01 (Inter	<0.02			<0.02	<0.01	0
	C10-C14 Fra	mg/l	0.05	<0.05			<0.05	<0.05	0
	C15-C28 Fra	mg/l	0.1	<0.1			<0.1	<0.1	0
	C29-C36 Fra	mg/l	0.1	<0.1			<0.1	<0.1	0
1999)									
TRHs (NEPC)	>C10-C16 Fra	mg/l	0.05	<0.05			<0.05	<0.05	0
	>C16-C34 Fra	mg/l	0.1	<0.1			<0.1	<0.1	0
	>C34-C40 Fra	mg/l	0.1	<0.1			<0.1	<0.1	0
	>C10-C16 le	mg/l	0.05	<0.05			<0.05	<0.05	0
	C6-C10 Frac	mg/l	0.02 (Primary): 0.01 (Inter	<0.02			<0.02	<0.01	0
	C6-C10 less	mg/l	0.02 (Primary): 0.01 (Inter	<0.02			<0.02	<0.01	0
2013)									
BTEXN	Benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Ethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Toluene	mg/l	0.001	<0.001			<0.001	<0.001	0
	Xylene (o)	mg/l	0.001	<0.001			<0.001	<0.001	0
	Xylene (m & p)	mg/l	0.002	<0.002	<0.002	0	<0.002	<0.002	0
	Naphthalene	mg/l	0.01 (Primary): 0.001 (Inte	<0.01	<0.01	0	<0.01	<0.0002	0
	Naphthalene	mg/l	0.00001 (Primary): 0.001 (<0.0	<0.0	0	<0.0	<0.0002	0
Polycyclic Aromatic Hydrocarbons									
	Acenaphthene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Acenaphthylene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Anthracene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benz(a)anthracene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(a)pyrene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(b)fluoranthene	mg/l	0.00001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(g,h,i)perylene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(k)fluoranthene	mg/l	0.00001	<0.0	<0.0	0	<0.0	<0.0001	0
	Chrysene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Dibenz(a,h)anthracene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Fluoranthene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Fluorene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Indeno(1,2,3-cd)perylene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Phenanthrene	mg/l	0.00001 (Primary): 0.0001	<0.0			<0.0	<0.0001	0
	Pyrene	mg/l	0.00001 (Primary): 0.0001	<0.0			<0.0	<0.0001	0
Chlorinated Aromatic Hydrocarbons									
	1,1,1,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,1-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2,2-tetrachloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2,3-trichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromochloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Carbon tetrachloride	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroethane	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Chloromethane	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Dichlorodifluoromethane	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Dichloromethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.01	0
	Trichlorofluoromethane	mg/l	0.001 (Primary): 0.01 (Inte	<0.001			<0.001	<0.01	0
Alkanes									
Chlorinated Alkanes									
	1,1-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	3-chloropropane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	4-chlorotoluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,2-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,3-dichloroethane	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tetrachloroethane	mg/l	0.001	<0.001			<0.001	<0.001	0
	trans-1,2-dichloroethane	mg/l	0.001	<0.001			<0.001	<0.001	0
	trans-1,3-dichloroethane	mg/l	0.001	<0.001			<0.001	<0.001	0
	Trichloroethane	mg/l	0.001	<0.001			<0.001	<0.001	0
	Vinyl Chloride	mg/l	0.001 (Primary): 0.01 (Inte	<0.001			<0.001	<0.01	0
Alkenes									
Solvents	2-Propanone	µg/l	1	<1.0	<1.0	0	<1.0		
PFAS	2-(N-methyl)perfluorooctanoic acid	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	2-(N-ethyl)perfluorooctanoic acid	µg/L	0.05 (Primary): 0.5 (Interla	<0.05	<0.05	0	<0.05	<0.5	0
	1H,1H,2H,2H-perfluorooctane sulfonic acid	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	1H,1H,2H,2H-perfluorooctane sulfonic acid	µg/L	0.05 (Primary): 0.01 (Inter	<0.05	<0.05	0	<0.05	<0.01	0
	1H,1H,2H,2H-perfluorooctane sulfonic acid	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	1H,1H,2H,2H-perfluorooctane sulfonic acid	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorobutanoic acid	µg/L	0.05 (Primary): 0.02 (Inter	<0.05			<0.05	<0.02	0
	Perfluorohexanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Perfluorooctanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Perfluorodecanoic acid	µg/L	0.01 (Primary): 0.02 (Inter	<0.01			<0.01	<0.02	0
	Perfluorododecanoic acid	µg/L	0.01 (Primary): 0.05 (Inter	<0.01			<0.01	<0.05	0
	N-methylperfluorooctanoic acid	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	Perfluoropentanoic acid	µg/L	0.01 (Primary): 0.02 (Inter	<0.01			<0.01	0.03	100
	N-ethylperfluorooctanoic acid	µg/L	0.05 (Primary): 0.1 (Interla	<0.05	<0.05	0	<0.05	<0.1	0
	Perfluorooctanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	N-ethylperfluorodecanoic acid	µg/L	0.05 (Primary): 0.02 (Inter	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoroundecanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	N-methylperfluoroundecanoic acid	µg/L	0.05 (Primary): 0.02 (Inter	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluorobutanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Perfluorooctanoic acid	µg/L	0.05 (Primary): 0.1 (Interla	<0.05			<0.05	<0.1	0
	Perfluorohexanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Perfluorohexanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Perfluorodecanoic acid	µg/L	0.01 (Primary): 0.02 (Inter	<0.01			<0.01	<0.02	0
	Perfluoroundecanoic acid	µg/L	0.01 (Primary): 0.02 (Inter	<0.01			<0.01	<0.02	0
	Perfluorotrianoic acid	µg/L	0.01 (Primary): 0.1 (Interla	<0.01			<0.01	<0.1	0
	Perfluorotetraenoic acid	µg/L	0.01 (Primary): 0.5 (Interla	<0.01			<0.01	<0.5	0
	Perfluoropentanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Perfluorooctanoic acid	µg/L	0.01	<0.01			<0.01	<0.01	0
	Sum of PFH	µg/L	0.01	<0.01			<0.01	<0.01	0
	Sum of US E	µg/L	0.01	<0.01			<0.01	<0.01	0
	Sum of PFAS	µg/L	0.1 (Primary): 0.01 (Interla	<0.1			<0.1	0.03	0
Monocyclic Aromatic Hydrocarbons									
	1,2,4-trimethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3,5-trimethylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromobenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Isopropylbenzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Styrene	mg/l	0.001	<0.001			<0.001	<0.001	0
Aromatic Hydrocarbons									
Miscellaneous	1,2-dibromobenzene	mg/l	0.001	<					

Appendix L 95% UCL Calculations

	A	B	C	D	E	F	G	H	I	J	K	L	
1	UCL Statistics for Data Sets with Non-Detects												
2													
3	User Selected Options			B(a)P - Fill Material Sportsfield									
4	Date/Time of Computation			29/08/2019 10:37:55 AM									
5	From File			WorkSheet_a.xls									
6	Full Precision			OFF									
7	Confidence Coefficient			95%									
8	Number of Bootstrap Operations			2000									
9													
10													
11	B(a)P												
12													
13	General Statistics												
14	Total Number of Observations				51		Number of Distinct Observations				2		
15									Number of Missing Observations				0
16	Minimum				0.025		Mean				0.0578		
17	Maximum				1.7		Median				0.025		
18	SD				0.235		Std. Error of Mean				0.0328		
19	Coefficient of Variation				4.055		Skewness				7.141		
20													
21	Normal GOF Test												
22	Shapiro Wilk Test Statistic				0.142		Shapiro Wilk GOF Test						
23	5% Shapiro Wilk P Value				0		Data Not Normal at 5% Significance Level						
24	Lilliefors Test Statistic				0.536		Lilliefors GOF Test						
25	5% Lilliefors Critical Value				0.124		Data Not Normal at 5% Significance Level						
26	Data Not Normal at 5% Significance Level												
27													
28	Assuming Normal Distribution												
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)						
30	95% Student's-t UCL				0.113		95% Adjusted-CLT UCL (Chen-1995)				0.147		
31							95% Modified-t UCL (Johnson-1978)				0.118		
32													
33	Gamma GOF Test												
34	A-D Test Statistic				20.46		Anderson-Darling Gamma GOF Test						
35	5% A-D Critical Value				0.791		Data Not Gamma Distributed at 5% Significance Level						
36	K-S Test Statistic				0.581		Kolmogrov-Smirnoff Gamma GOF Test						
37	5% K-S Critical Value				0.129		Data Not Gamma Distributed at 5% Significance Level						
38	Data Not Gamma Distributed at 5% Significance Level												
39													
40	Gamma Statistics												
41	k hat (MLE)				0.787		k star (bias corrected MLE)				0.753		
42	Theta hat (MLE)				0.0735		Theta star (bias corrected MLE)				0.0768		
43	nu hat (MLE)				80.24		nu star (bias corrected)				76.85		
44	MLE Mean (bias corrected)				0.0578		MLE Sd (bias corrected)				0.0666		
45									Approximate Chi Square Value (0.05)				57.66
46	Adjusted Level of Significance				0.0453						Adjusted Chi Square Value		57.18
47													
48	Assuming Gamma Distribution												
49	95% Approximate Gamma UCL (use when n>=50))				0.0771		95% Adjusted Gamma UCL (use when n<50)				0.0778		
50													
51	Lognormal GOF Test												
52	Shapiro Wilk Test Statistic				0.142		Shapiro Wilk Lognormal GOF Test						
53	5% Shapiro Wilk P Value				0		Data Not Lognormal at 5% Significance Level						
54	Lilliefors Test Statistic				0.536		Lilliefors Lognormal GOF Test						

	A	B	C	D	E	F	G	H	I	J	K	L
55	5% Lilliefors Critical Value					0.124	Data Not Lognormal at 5% Significance Level					
56	Data Not Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data					-3.689	Mean of logged Data					-3.606
60	Maximum of Logged Data					0.531	SD of logged Data					0.591
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL					0.038	90% Chebyshev (MVUE) UCL					0.0408
64	95% Chebyshev (MVUE) UCL					0.0446	97.5% Chebyshev (MVUE) UCL					0.05
65	99% Chebyshev (MVUE) UCL					0.0606						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data do not follow a Discernible Distribution (0.05)											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL					0.112	95% Jackknife UCL					N/A
72	95% Standard Bootstrap UCL					N/A	95% Bootstrap-t UCL					N/A
73	95% Hall's Bootstrap UCL					N/A	95% Percentile Bootstrap UCL					N/A
74	95% BCA Bootstrap UCL					N/A						
75	90% Chebyshev(Mean, Sd) UCL					0.156	95% Chebyshev(Mean, Sd) UCL					0.201
76	97.5% Chebyshev(Mean, Sd) UCL					0.263	99% Chebyshev(Mean, Sd) UCL					0.385
77												
78	Suggested UCL to Use											
79	95% Chebyshev (Mean, Sd) UCL					0.201						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulation results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

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