DEPARTMENT OF EDUCATION, SCHOOL INFRASTRUCTURE ASSET MANAGEMENT UNIT

TARGETED ENVIRONMENTAL SITE ASSESSMENT

36 ELKIN AVENUE, HEATHERBRAE NSW

MARCH 2023

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Targeted Environmental Site Assessment
36 Elkin Avenue, Heatherbrae NSW

Department of Education, School Infrastructure Asset Management Unit

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REV	**DATE**	**DETAILS**
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B	28/03/2023	Environmental Test Pit Log Appendix added

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ABBREVIATIONS

ABC	Ambient background concentration
ACL	Added contaminant limit
ACM	Asbestos containing material
BTEX compounds	Benzene, toluene, ethylbenzene and xylene
CEC	Cation exchange capacity
CHCs	Chlorinated hydrocarbons
CSM	Conceptual site model
DoE	Department of Education
DP	Deposited Plan
DQI	Data quality indicator
DQO	Data quality objective
DSI	Detailed site investigation
EIL	Ecological investigation level
ESL	Ecological screening level
F1	TRH C_6-C_{10} minus BTEX compounds
F2	TRH >C_{10}-C_{16} minus naphthalene
HIL	Health investigation level
HSL	Health screening level
LEP	Local environmental plan
LGA	Local government area
mAHD	Metres Australian Height Datum
mBGL	Metres below ground level
NATA	National Association of Testing Authorities
NEPM	*National Environment Protection (Assessment of Site Contamination) Measure 1999* (as amended 2013)
NL	Non-limiting
NSW EPA	New South Wales Environment Protection Authority
OCPs	Organochlorine pesticides
OPPs	Organophosphate pesticides
PAHs	Polycyclic aromatic hydrocarbons

PCBs	Polychlorinated biphenyls
PID	Photo-ionisation detector
PQL	Practical quantitation limit
QA/QC	Quality assurance/quality control
RPD	Relative percentage difference
SOP	Standard operating procedure
SCC	Specific Contaminant Concentration
TESA	Target Environmental Site Assessment
TCLP	Toxicity characteristic leachate procedure
TEQ	Toxicity equivalent quotient
TRH	Total recoverable hydrocarbons
VOCs	Volatile organic compounds

EXECUTIVE SUMMARY

WSP Australia Pty Ltd (WSP) was commissioned by Department of Education, School Infrastructure Capital works (DoE) to undertake a targeted environmental site assessment (TESA) for redevelopment program that is planned to be completed at the Hunter River High School located on 36 Elkin Avenue, Heatherbrae NSW. The purpose of the TESA is to determine the potential risk extent and depth of any contaminated material in the specified targeted areas. The areas investigated were later reduced due to access restriction implemented due to the identification of archaeological heritage artefacts at three location on the site.

The objectives of the investigation are to:

- assess the site’s suitability for the proposed future landuse associated with the existing site layout and the redevelopment program;
- provide a preliminary waste classification of material identified at the site in accordance with the NSW EPA (2014) *Waste classification guidelines*; and,
- provide sufficient information to develop a remedial action plan (RAP) for the proposed development footprint to inform future construction works.

SCOPE OF WORK

The scope of works (after the exclusion zone implementation) comprised excavation of a total of hundred and eleven test pits within five different areas totalling approximately 2.8 Ha on the school property. Soil samples from all test pits were collected at a range of depths relevant to the proposed use each area as part of a future development. Selected representative soil samples were analysed for contaminants of concern in accordance with the SAQP (WSP 2023a).

CONCLUSIONS AND RECOMMENDATIONS

The TESA works were undertaken to assess the current contamination status of the three specified investigation areas comprising the site, and potential risks associated with this contamination to the proposed development plan. The results of the investigation indicated the following:

- All analytical chemical results for the samples collected were below the adopted site criteria. Except for two benzo(a)pyrene samples from sample locations TP1_08_0.1 and TP3_21_0.1 and one TPH C16-C34 Fraction (F3) sample from TP3_21_0.1. A further fifteen Nickel EIL exceedances identified across all the areas investigated.
- Results indicated that elevated Nickel and the single TPH C16-C34 Fraction (F3) exceedance is largely localised to either fill or topsoil, and additionally, there is no evidence of stressed vegetation on the site. Implementation of the proposed development design will mitigate any potential ecological impacts due to do the significant ground disturbance works required to be undertaken and removal of localised potential receptors.
- Based on the statistical methods of source analysis undertaken, the PAHs identified within the fill material at the site are derived from coal, coke or ash-based sources and therefore present a reduced risk of bioavailability. Additionally, the leachability testing demonstrates that the identified elevated PAH concentrations are generally immobile and therefore present a negligible risk of impacting groundwater beneath the site.
- One non-friable fragment of asbestos was identified in test TP2_14 in the investigation area as well as at several locations during the previously conducted heritage investigation work. Additionally, a second test pit TP2_07 noted a trace presence of friable concentrations of Asbestos within the fill material. FA/AF testing of this material identified that the concentration was below the adopted health screening criteria. Note that no friable materials exceeding the HSLs were identified in surface materials sampled during the works.

- Based on the asbestos in soil sampling undertaken during the fieldwork investigations, no HSL criteria exceedances were noted in the sample results reported, however, the presence of friable concentrations was confirmed within the investigation area. These materials have largely been identified as being associated with the fill noted across the proposed development area. Airborne fibre monitoring undertaken during the intrusive works as well as during previous on-site activities did not measure airborne fibre concentrations in the air (i.e. below the detection limit of <0.01 fibres/mL) which indicates a low inhalation risk if impacted materials are exposed.
- An in-situ waste classification was undertaken based on the laboratory results of soil samples collected from the site. Excluding the hotspot identified as TP3_21_0.1, the fill material within the investigation area at the site is classified as **Special Waste (Asbestos) in a matrix chemically consistent with General Solid Waste – Non putrescible**. The Special Waste classification is due to the asbestos presence identified in the soil. The material identified in TP3_21_0.1 was classified as **Special Waste (Asbestos) in a matrix chemically consistent with Restricted Solid Waste**. Please note that this Waste classification is limited to the reduced areas of investigation and does not include the areas excluded due to the culturally sensitive artefact identified on the site.
- Based on the sample results and analysis completed, WSP does not consider that the exceedances identified on the site fulfill the criteria required to trigger a duty to notify NSW EPA of this contamination.

Based on the results of this assessment WSP considers that the site is not suitable for the proposed development until further remediation has occurred. WSP recommends that remediation is necessary before any development works proposed to be undertaken across the all the proposed development area:

- Based on the site works completed WSP recommend further investigation be undertaken within the culturally sensitive artefact exclusion zones following the completion of further delineation investigation works for the culturally sensitive artefact locations and approval and acceptance of any relevant and required permits and management plans for any identified heritage areas within the proposed development area. The sampling to be undertaken will form part of the additional waste classification necessary to inform the later stages of the planned development include a revised Remedial Action and Plan and final development design.
- WSP recommend further sampling be conducted to delineate the hotspot impact identified exceedances in the test pit location TP3_21. This is recommended to reduce the volume of soil required to be designated with a ***Restricted Soil Waste (Special Waste – Asbestos)*** classification and minimise the cost impact of disposal of that material offsite.
- Delineation sampling conducted in a southern and eastern direction from the test pit would encroach on the heritage exclusion zones, so consideration of the timing of delineation sampling needs to be undertaken with the component of field work also required to after any additional heritage delineation investigation works and the implementation of any permits of management plans at the site, permitting the works to proceed.
- Following the delivery of this TESA and the supplementary reporting of the information from the additional sampling to be conducted, WSP recommend a revised CSM and a remedial action plan (RAP) be developed for the site, with remedial measures implemented as part of the planned development at the site.
- Based on the confirmation of the presence of asbestos in a non-friable and friable state at the site and within the proposed development footprint, a review of the Site-Specific Asbestos Management Plan and the Overarching Asbestos Management Plan for School Infrastructure NSW should be undertaken as part of the ongoing planning of proposed development to ensure any remedial or management measures that are required to be undertaken as part compliance with SINSW procedures and policies are met.

WSP notes that the investigations outlined in this TESA were specifically for Areas 1, 2, 3, 4 and 7 of the proposal submitted for these works and does not assess any soil material within the heritage exclusion zone at the site as presented in Figure 2 of Appendix A. The TESA does not provide a suitability assessment for the wider school property. This report should be read with reference to the limitations presented in Section 13 of this report.

1 INTRODUCTION

1.1 BACKGROUND

WSP Australia Pty Ltd (WSP) was commissioned by Department of Education, School Infrastructure Capital Works (DoE) to undertake a Targeted Environmental Site Assessment (TESA) for the redevelopment program that is planned to be completed at of Hunter River High School located on 36 Elkin Avenue, Heatherbrae NSW. The locality of the school property is presented in Figure 1 of Appendix A and the individual development extents which have been investigated as part of these works are presented in Figure 2 of Appendix A. Note that the investigation extents presented in Figure 2 constitute the site for this project.

The investigation site comprises five individual areas within the greater school property totalling approximately 2.8 Ha. The individual areas are located on the eastern side of the school adjacent to the Pacific Highway. The location of these individual areas and test pits are presented in Figures 3 to 8 of Appendix A.

The purpose of the TESA is to determine the potential extent and depth of any contaminated material in the specified targeted areas.

1.2 OBJECTIVES

The objectives of the investigation were to:

- Assess the investigation extent’s suitability for the proposed future landuse associated with the existing site layout and the redevelopment program;
- Provide a preliminary waste classification of material identified at within the investigation extent in accordance with the NSW Environment Protection Authority (EPA 2014), *Waste Classification Guidelines*; and
- Provide sufficient information to develop a remedial action plan (RAP) for the proposed development footprint to inform future construction works.

1.3 SCOPE OF WORK

This TESA has been undertaken utilising information provided by DoE and APP associated with the development layout as well as a previous sampling analysis plan (SAQP) undertaken by WSP in 2022.

The revised scope of work for the TESA comprised of excavation of a hundred and eleven test pits using an excavator to a maximum depth of 0.6 metres below ground level (mBGL) and collection of soil samples from all test pit locations.

The spread of test pits across the three Areas are as follows:

- In Area 1 a total of seventeen test pits were excavated (TP1_01 to TP1_17);
- In Area 2 a total of sixteen test pits were excavated (TP2_01 to TP1_16);
- In Area 3 a total of twenty-one test pits were excavated (TP3_01 to TP1_21);
- In Area 4 a total of twenty-four test pits were excavated (TP4_01 to TP1_24); and,
- In Area 7 a total of thirty-three test pits were excavated (TP7_01 to TP1_33).

Laboratory analysis of selected representative soil samples was undertaken for the contaminants of concern identified at the site. Samples were analysed for the following:

- Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn);

- Benzene, toluene, ethylbenzene and xylenes (BTEX);
- Total recoverable hydrocarbons (TRH);
- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Organochlorine pesticides (OCP);
- Organophosphorus pesticides (OPP); and,
- Asbestos.

Preparation of this TESA report which focuses on assessing the soil contamination status of the site, assessing the suitability of the site for the proposed use.

1.4 HERITAGE EXCLUSION ZONE

Prior to the commencement of any intrusive contamination investigation ground works an archaeological heritage investigation was required to be completed at the site. The heritage investigation was undertaken in the week prior to the planned date for WSP's contamination field works and identified culturally significant artefacts at three locations within the planned investigation area.

Due to condensed fieldwork timeframes for the heritage and contamination investigation, the final findings for the heritage investigation were not able to be issued prior to the commencement of the contamination assessment fieldworks. Due to that limitation, significant preliminary recommendations from the heritage investigation had to be adopted to mitigate the potential for any inappropriate ground disturbance in areas where culturally significant artefacts were identified. The heritage consultant (Kayandel) and WSP confirmed that exclusion zones on 28m circles from the artefact location would meet the necessary requirements to the contamination investigation ground works to be able to proceed.

Based on the locations of the artefacts and the exclusion zone implemented, the proposed investigation areas were reduced in approximate size to the following areas.

- Area 1 (4,500 m^2) reduced by 1,900 m^2 to 2,600 m^2;
- Area 2 (2,350 m^2) not impacted or reduced;
- Area 3 (4,200 m^2) reduced by 700 m^2 to 3,500 m^2;
- Area 4 (3,500 m^2) reduced by 1,000 m^2 to 4,350 m^2; and
- Area 7 (9,600 m^2) reduced by 1,900 m^2 to 9,600 m^2.

Figure 2 in Appendix A indicates the exclusion zones implemented and revised accessible investigation areas of the contamination assessment works completed.

2 SITE LOCATION AND SETTING

2.1 SITE LOCATION AND IDENTIFICATION

The general site identification details are provided in Table 2.1.

Table 2.1 Summary of general site information

Site address	36 Elkin Avenue, Heatherbrae NSW 2324
Site identification	The investigation extent lies within Lot 1 in DP 540114 and Lot 1 in DP 120189. The school property also lies on Lot 1 in DP 579025.
Greater school property	Approximately 9.2 ha
Current site use	The greater school property and the subject Investigation Areas currently comprise an operational high school, with grassed and agricultural areas including a sports field in the eastern portion of the school property and education facilities and buildings in the northwest of the school property.
Surrounding land uses	— North – School is bound by agricultural land and the Hunter River beyond; — East – School is bound to the east by Elkin Avenue, residential properties, the Pacific Highway and commercial/industrial properties beyond; — South – School is bound to the south by Pacific Highway and commercial/industrial properties beyond, and to the southwest by freestanding residential dwellings fronting Kingston Parade; and — West – School is bound to the west by freestanding residences along Kingston Parade, and by agricultural land and the Hunter River beyond.
Local government area (LGA) and zoning	The school property and the subject site is located within the Port Stephens LGA and is zoned ‘R2 Low Density residential’ under the Port Stephens Local Environmental Plan 2013.
Proposed site use	The Department of Education, School Infrastructure Capital Works has indicated that the school property is proposed to have a redevelopment. It is understood that the development is intended to facilitate the current landuse as a high school.

2.2 INVESTIGATION AREA DEVELOPMENT

The targeted investigation areas were developed based on the proposed development program provided by the client. WSP understands that the design of the proposed development has not been finalised and is still subject to change. WSP’s proposal for these investigation works provided primary and contingency options for the client to select preferred options based on their specific requirements. Based on the proposed development plan provided by the client, the total investigation areas were broken down into eight different components of the wider site planned to be impacted. Five were to selected to be assessed as part of these investigations by the client. The scope for each area was tailored for the proposed development works to occur in that area, the potential subsurface impacts according to the detailed design plans provided, and the end use of the space. The Table 2.2 below provides a breakdown of each area selected to be investigated, the proposed end use for the proposed development and inferred depth of disturbance. Figure 2 presents the detailed of the selected investigation areas included within this report.

Table 2.2 Investigation Area Specification

SELECTED INVESTIGATION AREA	PROPOSED END USE OF AREA FOLLOWING DEVELOPMENT	INITIALLY PROPOSED INVESTIGATION AREAS BASED ON PROVIDED DESIGN PLANS	INVESTIGATION DEPTH BASED ON PROVIDED DESIGN PLANS
Area 1	New School facility buildings - Hardstand ground surface end use	4,500 m^2	0.6 mBGL
Area 2	Secondary school facility areas - Hardstand ground surface end use	2,350 m^2	0.3 mBGL
Area 3	Access Road and carpark areas - Hardstand ground surface end use	4,200 m^2	0.45 mBGL
Area 4	Access Road and carpark areas - Hardstand ground surface end use	5,350 m^2	0.45 mBGL
Area 7	Open Space playground areas – Natural Ground surface	11,500 m^2	0.3 mBGL

2.3 SITE INSPECTION

The site was inspected on 18 January 2023 by three WSP environmental scientists, Gleiceane L. Breda, Nicholas Mason, and Stirling Walsh. Based on observations made in the field, the school property is surrounded by agricultural land and the Hunter River to the northwest, to the east the school is bound by Elkin Avenue, residential properties, the Pacific Highway, and commercial/industrial properties. The south, by Pacific Highway and commercial/industrial properties beyond, and to the southwest by residential dwellings fronting Kingston Parade, and West it is bounded by residences along Kingston Parade, and by agricultural land. The school property is enclosed by fences, the public can access through the main gate.

The school property comprises a hardstand carpark, walkways, garden beds, agriculture plots and existing demountable classrooms, have open spaces including a field sport with grass coverage, some trees along the site boundary toward east. Surrounding topography slopes slightly to the west towards Hunter River, consistent with the grading of the school property.

During the test pit excavation works, minor signs of contamination including discoloured soil and evidence of construction and demolition waste were noted in the investigated areas. Additionally, in multiple locations in each of the investigation areas, trace evidence including slag, gravel and brick debris, charcoal and other debris was noted. The environmental test pit logs provided in Appendix E details the specific soil condition encountered in each test pit excavated.

2.4 TOPOGRAPHY AND SURFACE WATER DRAINAGE

The Investigation Areas are situated at approximately 7 metres Australian Height Datum (mAHD) according to Google Earth Pro. The Investigation Areas follow the surrounding topography and slopes slightly to the west towards Hunter River, consistent with the grading of the school property.

The site is situated on a floodplain with a number of ephemeral streamlines in close proximity to the site. The nearest permanent surface water body is the Hunter River, which is approximately 850 metres west of the greater school property. Surface water runoff from the site would be directed to the municipal stormwater network or downslope into the Hunter River.

2.5 GEOLOGY

According to the Newcastle 1:100,000 Soil Landscape Series Sheet the greater school property falls within the Millers Forest and Tea gardens Variant A soils landscapes, classified as alluvial. Typical lithology includes sand, silt, clay, and gravel with some residual and colluvial deposits.

The NSW Planning Portal indicated that most of the soil within the greater school property is classified as Class 4 - acid sulfate soils (ASS). These are soils where ASS is likely to be found beyond 2 metres below the natural ground surface.

2.6 HYDROGEOLOGY

A review of the licensed borehole registers on the NSW Government Water Information website (http://realtimedata.waternsw.gov.au/water.stm) indicated that there are 2 registered groundwater bores (GW064149 and GW0066784) within 500 m of the site. The groundwater bores were used for monitoring purposes on private sites. The closest registered groundwater bore was located approximately 43 m north-east of the greater school property.

The groundwater flow direction is expected to be westward, following the overall flow path of the Hunter River towards the river mouth at Newcastle and considering regional topography, geology, and hydrology.

2.7 REGULATORY DATA BASE REVIEW

The NSW EPA holds a record of sites notified as potentially contaminated (https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/list-of-notified-sites). The record indicates that one site, Bogas (Former Caltex) Service Station, 3 Speedy Lock Lane (searched on 04/01/2023), has been reported to the NSW EPA within a 500-metre radius of the site, approximately 230 m north-west of the site. Based on the inferred groundwater flow direction, it has the potential to be a source of groundwater and vapour contamination to the site.

Additionally, the NSW EPA record of licences issued under the Protection of the Environment Operations Act 1997 indicates that there are no active licences at or immediately adjacent to the site (searched on 04/01/2023).

There is one site listed in the per- and poly-fluoroalkyl substances (PFAS) Investigation and Management Programs within the 500 m search radius, that being: Total Fire Solutions PFAS investigation site. It is unlikely that the site will be affected by PFAS from that location due to the inferred western groundwater flow. The location of the site is not within the PFAS Management Area around RAAF Williamtown, which is located approximately 8 km to the east. The location of the site is also not downgradient of the base. Furthermore, there are no groundwater extraction activities taking place on site. The possibility of PFAS contamination at the site is regarded as being low.

3 PREVIOUS INVESTIGATIONS

A review of previous investigations has identified contamination at the site including that which was associated with historical land reclamation/filling. Previously issued documents were included for review, therefore an assessment of data quality was undertaken. However, the investigations available were undertaken one year ago and cannot account for the full history of change and development at the site, including potential contamination sources and activities. There are no exact provided records of the site development and changes.

For the proposed wider site development, a Remedial Action Plan was prepared by JBS&G to initially develop the conceptual site model (CSM) of potential contamination source-pathway-receptor links. The developed CSM assisted in determining the extent of further characterising and validating site soils for potential site reuse.

The following reports was summarised as part of the JBS&G Australia Pty Ltd (October 2022), Remedial Action Plan, Hunter River High School, 36 Elkin Avenue, Heatherbrae NSW. Additional report previously issued by WSP prior to the previously conducted works that form part of this proposed development and further more recent reports following the issuing of the Remedial Action Plan have also been included to further inform the site CSM and any potential Remedial actions required to be undertaken for the proposed development to proceed.

- Clearance Certificate – Asbestos Removal, Hunter River High School (8219) - 36 Elkin Avenue, Heatherbrae NSW 2324. WSP Australia Pty Ltd, reference 10 October 2019 (WSP 2019a);
- Hunter River High School: Asbestos In Grounds Management Plan. WSP Australia Pty Ltd, reference 8219_ASB_101019_AMP, dated 14 October 2019 (WSP 2019b);
- Hunter River High School Agriculture Plot: Asbestos Risk Assessment. WSP Australia Pty Ltd, reference 8219_ASB_190320_AgPlotRiskAssessment, dated 4 May 2020 (WSP 2020);
- Preliminary Site Investigation: Hunter River High School, 36 Elkin Avenue, Heatherbrae. Hunter Civilab, reference HC Ref: P2087-PSI-002-Rev0, dated 12 June 2020 (HC 2020a);
- Summary Letter – Environmental Investigation: 36 Elkin Avenue, Heatherbrae. Hunter Civilab, reference HC Ref: P2087-LR-001-Rev0, dated 3 July 2020 (HC 2020b);
- Report on Geotechnical Investigation, School Upgrades: Hunter River High School, 36 Elkin Avenue, Heatherbrae. Prepared for NSW Department of Education, Project 216008.00 – R.001.Rev0, dated August 2022 (DP 2022);
- Makesafe Certificate – Heritage Investigation, Hunter River High School (8219) - 36 Elkin Avenue, Heatherbrae NSW 2324. WSP Australia Pty Ltd, dated 16 January 2023 (WSP 2023); and
- Hunter River High School Sampling Analysis and Quality Plan, 36 Elkin Avenue, Heatherbrae. WSP, reference Ref: PS135419-WSP-SAQP-001-RevA, dated 17 January 2023 (WSP 2023a).

3.1 HISTORICAL ASBESTOS FINDS

Based on WSP’s understanding of the site and the historical records provided by the client, there is a significant body of previously completed works and investigations that have been undertaken at the site. Following WSP’s first attendance of the wider school property, a clearance certificate was issued on 10 October 2019, in conjunction with a Site-Specific Asbestos Management Plan (SSAMP) issued on 14 October 2019.

Subsequent intrusive ground works have been conducted in the time since the initial ground surface removal works and clearance including the Agricultural Plot Risk Assessment (dated 4 May 2020) and numerous clearance and makesafe inspections following ground disturbance and removal works. The testing completed for the agricultural plot (i.e. not within the current investigation area) has identified a single fragment of fibre cement sheeting less than 7mm in size which was identified from a presence/absence test. Following identification of this fragment, the area where it was identified had access to it restricted. This restriction is currently still in place to users of the greater school property. To date across the site, this asbestos fine is the only positive identification of friable materials across the wider school property.

The most recent investigation works conducted prior to this assessment was the heritage investigation works completed under controlled asbestos conditions in accordance with the SSAMP. Asbestos containing material was identified in the excavation locations during the heritage investigation works the three excavation locations. A makesafe certificate and site plan were provided to the client following the completion of the works.

Based on previous works conducted at the site, the Site-Specific Asbestos Management Plan for the school considers all areas within the school property impacted with asbestos contamination and the SSAMP specifies that any excavated or impacted soil material is required to be treated as asbestos containing accordingly. The relevant certificates of analysis and site plans indicating the confirmed locations of asbestos samples at the site from relevant historical investigations are presented for reference in Appendix G. Asbestos identified during the TESA fieldwork and the archaeological investigations in 2023 are presented in Figure 9 of Appendix A.

4 PRELIMINARY CONCEPTUAL SITE MODEL

Based on the preliminary CSM prepared by JBS&G Australia Pty Ltd provides a written representation of the CSM based on the land use and potential soil contaminating events at the site. This is summarised in Table 4.1.

Table 4.1 Preliminary CSM

Potential sources of impact	Potential sources of impact at the site include: — Land filling for levelling of the site and reclamation using waste materials; — Former and/or current site buildings containing hazardous building materials and subsequent demolition of structures; — Use of pesticides during historical agricultural landuse and also during the operational phase of the site as a school (e.g. surface pesticide dressing of building footprints for pest protection); — Parked cars on paved areas; and — Off-site underground petroleum storage systems (UPSS) areas have been previously identified towards the north and northeast.
Potentially impacted media	— Soil: Contamination impacts from pesticide use, particularly in vegetated areas and hydrocarbon spills or leaks; — Groundwater and Soil: Contamination impact from vapour contamination; and — Surface water body and riverbed sediment: Migration from surface runoff from the site and/or migration of potentially contaminated groundwater from the site.
Contaminants of concern	Contaminants of concern at the site comprise: — Petroleum compounds including total recoverable hydrocarbons (TRH) and benzene, toluene, ethylbenzene and xylene (BTEX compounds); — Polycyclic aromatic hydrocarbons (PAHs); — Heavy metals; — Organochlorine and organophosphate pesticides (OCPs/OPPs); — Polychlorinated biphenyls (PCBs); and — Asbestos.
Migration pathways	Potential migration pathways include: — Vertical migration of contaminants in soil from infiltration of rainwater and leaching of contaminants; — Migration of contaminants through surface runoff or migration of potentially contaminated groundwater from the site; — Run-off of surface contaminants in rainwater; — Volatilisation of hydrocarbon contamination; and — Airborne migration of contamination in dust or vapour or as fibres.

Potential exposure pathways	Potential exposure pathways include: — Inhalation of dust, fibres or vapours by site users or nearby site users; — Ingestion or dermal contact with contaminated surface soils or near surface soils by future site users or excavation/maintenance workers; and — Ingestion or dermal contact with contaminated water downgradient of the site through extraction of groundwater via domestic bores or the use of downgradient surface water bodies for recreation.
Potential sensitive receptors	Based on the site setting, sensitive receptors potentially include: — Underlying soil and groundwater; — Members of the school (students, staff) and public when accessing the site; — Future users of the site; — Surface watercourses receiving groundwater from the site, including Hunter River, located 850 m west downgradient of the site; — Occupiers of residential properties surrounding and downgradient of the site; and — On-site and off-site construction or utility workers (those working within service).

Based upon the preliminary CSM presented in Table 4.1, the most likely source of contamination on the site is historical filling and the contaminants of concern comprise TRH, BTEX, PAH, OCP, OPP, PCB, heavy metals and asbestos. This target material and subject contaminants of concern have formed the focus of the intrusive investigations detailed in this TESA.

5 DATA QUALITY OBJECTIVES

Systematic planning is critical to successful implementation of an environmental assessment and is used to define the type, quantity and quality of data needed to inform decisions. The United States Environmental Protection Agency has defined a process for establishing data quality objectives (DQOs), which has been referenced in the *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM, as amended 2013).

DQOs ensure that:

- The collection of sufficient data to enable the project objectives to be met;
- Measurement locations in optimal locations, practicalities allowing (possible limitations including but not limited to, access restrictions, presence of buildings or underground services);
- The use of appropriate sampling methodologies applying standard documented operating procedures and best practice for all contaminants of concern;
- Sufficient duplication to provide confidence in the precision of the data; and
- Appropriate sample handling and transport.

The DQO process is a seven-step iterative planning approach. The outputs of the DQO process are qualitative and quantitative statements which are developed in the first six steps. They define the purpose of the data collection effort, clarify what the data should represent to satisfy this purpose and specify the performance requirements for the quality of information to be obtained from the data. The output from the first six steps is then used in the seventh step to develop the data collection design that meets all performance criteria and other design requirements and constraints. The DQO process adopted for the TESA works is outlined in Table 5.1.

Table 5.1 DQO process

STEP	DESCRIPTION	OUTCOMES
1	State the problem	The department of education (DoE) plans to undertake redevelopment in some areas of the school property. Asbestos has been identified in soil across the site and previous investigations have identified number of COPCs associated with historic filling and demolition of structures. The continual operation and the proposed redevelopment of Hunter River High School requires the risk of COPCs be characterised and the extent of contamination.
2	Identify the decisions/goal of the investigation	The decisions to be made based on the results of the investigation are as follows: — Have historically contaminating activities changed the type and/or extent of contamination present on the site? — Are the capped areas effective enough to permit general access and use at the site at these locations? — Does elevated concentrations of identified COPCs exist in fill and natural soil on the site? — Can exposed material be used without unacceptable risk to receptors from identified contamination? — Is remediation required to render the investigation extent suitable for the ongoing landuse? — What is the in-situ waste classification of material from the perspective of off-site disposal?

STEP	DESCRIPTION	OUTCOMES
3	Identify the inputs to the decision	The inputs required to make the above decisions are as follows: — Historical and desktop-based data sources to inform the preliminary CSM and therefore the sampling and analytical strategy for intrusive investigations; — Field data collected during the intrusive investigations including test pit logs and asbestos air monitoring; — Laboratory data for targeted analytes based on COPCs; — Statistical results based on available analytical data; — Quality assurance results demonstrating suitability of the dataset; and — Adopted site criteria for comparison of analytical and field data to assist in risk characterisation.
4	Define the study boundaries/ constraints on data	The boundaries of the investigation have been identified as follows: Spatial boundaries: the spatial boundary of the investigation area is defined as five areas across the site, — Area 1 (2,600 m2): Development footprint of proposed learning hub and proposed gymnasium. Reduced by the heritage artefact exclusion zone. — Area 2 (2,350 m2): Development footprint of proposed paved area and garden beds; — Area 3 (3,500 m2): Development footprint of proposed road and parking lot. Reduced by the heritage artefact exclusion zone; — Area 4 (4,350 m2): Development footprint of proposed road and parking lot; Reduced by the heritage artefact exclusion zone; and, — Area 7: (9,600 m2): Central Grassed Play Area, understood not to be disturbed by proposed development works. Reduced by the heritage artefact exclusion zone. Areas presented in Figure 2 Appendix A. The study depth will be limited to the surficial fill material and natural soils which they overly. It is estimated that the study will extend to a maximum of either 0.3 metres, 0.45 metres or 0.6 metres below the existing ground level depending upon the individual investigation area Temporal boundaries: constrain data collection for the investigations and are defined as the time between the date of the first investigations undertaken by Hunter Civilab (PSI on 12 June 2020) through to the completion of fieldwork 23 January 2023
5	Develop a decision rule	The purpose of this step is to define the parameters of interest, specify the action levels and combine the outputs of the previous DQO steps into an ‘if…then…’ decision rule that defines the conditions that would cause the decision maker to choose alternative actions. The parameters of interest are concentrations of contaminants of concern (TRH, BTEX, PAHs, metals, OCP, OPP, PCB, and asbestos) in soil. An assessment of the concentrations of the contaminants of concern targeting soil within the investigation areas was proposed to be undertaken to assess the suitability of the site. Should concentrations exceed the adopted assessment criteria, management and remedial options would be considered.

STEP	DESCRIPTION	OUTCOMES
6	Specify limits on decision errors	The acceptable limits on decision errors to be applied in the investigation and the manner of addressing possible decision errors have been developed based on the data quality indicators (DQIs) of precision, accuracy, representativeness, comparability and completeness and are presented in Table 5.2 and 5.3.
7	Optimise the design for obtaining data	The purpose of this step is to identify a resource-effective data collection design for generating data that satisfies the DQOs. This assessment has been designed considering the information and data obtained during the previous site assessments and objectives of SAQP and the subsequent preliminary CSM presented in Section 4. The resource effective data collection design that is expected to satisfy the DQOs is described in detail in Section 6 (methodology). To ensure the design satisfies the DQOs, DQIs (for accuracy, comparability, completeness, precision, and reproducibility) have been established to set acceptance limits on field methodologies and laboratory data collected.

DQIs for sampling techniques and laboratory analyses of collected soil samples define the acceptable level of error for this validation assessment. The adopted field methodologies and data obtained have been assessed by reference to DQIs as follows:

- Precision: a quantitative measure of the variability (or reproducibility) of data;
- Accuracy: a quantitative measure of the closeness of reported data to the true value;
- Representativeness: the confidence (expressed qualitatively) that data are representative of each media present on the site;
- Comparability: a qualitative parameter expressing the confidence with which one data set can be compared with another; and
- Completeness: a measure of the amount of useable data (expressed as a percentage) from a data collection activity.

A summary of the field and laboratory DQIs for the validation assessment are provided in Tables 5.2 and 5.3.

Table 5.2 DQIs for field techniques

DQI
Precision
Standard operating procedures (SOPs) appropriate and complied with
Collection of inter-laboratory and intra-laboratory duplicates at a rate of 1 in 20 primary samples for the COPCs for calculation of relative percent difference between samples (RPDs).
Accuracy
WSP SOPs appropriate and complied with
Collection of rinsate blanks using rinsate water supplied by the laboratory.
Inclusion of trip blanks and trip spikes supplied by the laboratory with samples during storage and transport.
Scheduling of sample analyses within sample holding time for the analytes of interest as per ‘representativeness’.
Representativeness
Appropriate media sampled according to SAQP.
Appropriate sampling density to suitably characterise each medium as per this SAQP.
All critical depths are sampled.
Appropriate sample storage and scheduling of sample analyses as soon as practical and within sample holding time for the analytes of interest: — 7-14 days for VOCs/SVOCs — 14 days for PAHs (including TCLP/ASLP analysis) — 7-28 days for inorganics — 28 days for mercury — 14 days for OCP/OPP/PCB — 180 days for TCLP/ASLP on metals — 6 months for other metals
Comparability
Same SOPs used on each occasion
Experienced sampler (s)
Same type of samples collected
Ensuring precision and accuracy objectives are met
Completeness
All critical samples collected and transported under chain of custody (COC) documentation
All critical samples analysed as per this SAQP
Sample analyses scheduling within sample holding time for the analytes of interest (as per ‘representativeness’ and ‘accuracy’)
All results received and provided in final certificates of analyses

Table 5.3 DQIs for laboratory analysis

INDICATOR	LABORATORY TECHNIQUES AND DATA ANALYSIS	ACCEPTABLE LIMIT
Precision A quantitative measure of the variability (or reproducibility) of data.	Analysis of field duplicates for the same analytes as the primary samples. Examination of relative per cent differences (RPDs) between primary and duplicate field samples for all individual analytes (not calculated results). The RPD is calculated from the following equation: $\text{RPD} = \left[\frac{\text{X1 - X2}}{\left(\frac{X1 + X2}{2} \right)} \right] \times 100$ Where X1 and X2 are the original and replicate sample values	<10 x LOR – no limit 10 – 20 x LOR - ± 30-50% RPD >20 x LOR - ± 30% RPD
	Analysis of laboratory duplicates for soil for the same analyses as primary samples.	<10 x LOR – no limit 10 – 20 x LOR - ± 30-50% RPD >20 x LOR - ± 30% RPD
	Analysis of laboratory prepared trip spikes (one per sample batch including the analysis of volatiles).	70 - 130 %
	All analyses performed should be National Association of Testing Authorities (NATA) accredited and undertaken by certified laboratories.	NATA accreditation for analyses performed and NATA stamp on certificates of analysis with the exception of any samples analysed for AF/FA because there is currently no NATA certified analysis for attaining the detection limit of 0.001 %v/v
Accuracy A quantitative measure of the closeness of reported data to the true value.	Analysis of laboratory prepared trip blanks (one per batch).	Results < LOR for all contaminants analysed.
	Analysis of laboratory method blanks.	Results < LOR for all contaminants analysed. Laboratory blank to be analysed at a rate of one blank per 20 samples.
	Analysis of laboratory matrix spikes, laboratory control samples and surrogates (for organic contaminants only) and/or internal standards.	Recoveries (as per the laboratories QA/QC limits) should be: — 70–130% for inorganics/metals — 60–140% for organics — 10–60% for some semi-volatile organic compounds (such as pentachlorophenol).

INDICATOR	LABORATORY TECHNIQUES AND DATA ANALYSIS	ACCEPTABLE LIMIT
	Analysis of laboratory duplicates as per ‘precision’.	<10 x LOR – no limit 10 – 20 x LOR - ± 30-50% RPD >20 x LOR - ± 30% RPD
Representativeness The confidence (expressed qualitatively) that data are representative of each media present on the site.	All required samples analysed as per the SAQP.	Compliance
Comparability A qualitative parameter expressing the confidence with which one data set can be compared with another.	Consistent sample analytical methods used	As per NEPM (2013)
	Same units used to present analytical results during all sampling rounds	Justify/quantify if different
	Laboratory LORs to be less than nominated assessment criteria.	As per the SAQP
	Same laboratories used during all sampling rounds. Eurofins Environment Testing Australia has been selected as the primary laboratory for the proposed soil investigations with Australian Laboratory Services (ALS) selected as the secondary laboratory. To ensure consistency across the dataset, these will be kept as the sole laboratories used for these investigations.	Justify/quantify if different
Completeness A measure of the amount of useable data (expressed as a percentage) from a data collection activity.	All critical samples analysed	As per the SAQP
	All required analytes analysed	As per the SAQP
	Appropriate methods and LORs	As per NEPM (2013)
	Sample documentation complete (COC, sample receipt, certificate of analysis, laboratory QA/QC results)	As per NEPM (2013)
	Sample holding times complied with	As per NEPM (2013) and laboratory-recommended holding times

6 SAMPLING AND ANALYSIS PROGRAM

6.1 SAMPLING RATIONALE

Based on the (SAQP) prepared by WSP, an extensive test pitting investigations was adopted to sufficiently assess each of the five Investigation Areas comprising the site (i.e. the site) identified in Table.6.1.

The nominated test pits were a mixture of shallow, intermediate, and deep test pits depending on the maximum depth of disturbance in each area. The number of investigation locations completed during the fieldwork varied from the numbers identified in the SAQP due to the exclusion zones delineated during the archaeological investigations. Table 6.1 presents the actual investigations undertaken as part of the intrusive works.

Table.6.1 Investigation scope

INVESTIGATION AREA	ESTIMATED AREA	NUMBER OF SAMPLE LOCATIONS	AREA PLANNED END USE	ESTIMATED TEST PIT DEPTH	ESTIMATED MAXIMUM DISPOSAL VOLUME	NUMBER OF ASBESTOS SAMPLES	NUMBER OF WASTE CLASSIFICATION SAMPLES	WASTE CLASSIFICATION SAMPLE DENSITY (AREA)
Area 1 (Deep)	4,500 m^2	17	Building Structures	0.6 mBGL	2,700 m³	23	16	1/169 m^3
Area 2 (Shallow)	2,350 m^2	16	Hardstand and Garden Areas	0.3 mBGL	700 m³	17	10	1/70 m^3
Area 3 (Intermediate)	4,200 m^2	21	Asphalt Hardstand	0.45 mBGL	1,890 m³	21	18	1/105 m^3
Area 4 (Shallow)	5,350 m^2	24	Asphalt Hardstand	0.45 mBGL	2,400 m³	29	22	1/109 m^3
Area 7 (Shallow)	11,500 m^2	33	Open Space	0.3 mBGL	3,450 m^3	39	22	1/157 m^3

An excavator was used to undertake excavation of a hundred and eleven test pits at the site (TP1_01 to TP1_17), (TP2_01 to TP2_16), (TP3_01 to TP3_21), (TP4_01 to TP4_24), (TP7_01 to TP7_33) to a maximum depth of 0.6 mBGL. This method was chosen to facilitate a thorough visual inspection of subsurface materials and fill was the target strata.

6.2 FIELDWORK

6.2.1 *PRELIMINARIES – SERVICE LOCATION*

A desktop search for underground services using the ‘Dial Before You Dig’ service was undertaken prior to intrusive investigations. Sampling locations were cleared prior to the commencement of intrusive works by a certified

Telstra/Optus-accredited service locater. The service locater was provided with information/plans from the relevant asset owners and site-specific plans from DoE. In addition, a toothless bucket was used to undertake 50 mm scrapes to the final depth for all test pit locations.

6.2.2 INTRUSIVE INVESTIGATION WORKS AND SOIL SAMPLING

Following the clearing of locations, intrusive investigation works were undertaken at the site on 18, 19, 20 and 23 January 2023. An excavator equipped with a batter bucket and a toothed bucket was used to advance a hundred and eleven test pits to a maximum depth of 0.6 mBGL under the supervision of two WSP environmental scientists.

Soil samples were generally collected from the surface (0.1 mBGL), 0.3 mBGL, 0.5 mBGL and where changes in lithology or evidence of contamination were observed.

Subsurface conditions were logged by experienced environmental scientists. Soil samples were placed in 250 mL jars, leaving minimal headspace, and closed using Teflon-coated lids. Samples were stored on ice in an esky and transported to the laboratory under chain of custody.

For collection of samples for asbestos analysis, the sampling methodology outlined in the WA Department of Health (DoH) 2009, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* was adopted, as referenced by the NEPM (2013). For ACM and friable asbestos (FA) a 10 L sample was collected and screened manually on-site through a ≤7 mm sieve. Any ACM/FA retained on the sieve (i.e. >7 mm in size) was bagged and sent to the primary laboratory for analysis. For asbestos fines (AF) a separate sample of approximately 500 mL was collected in a bag. This entire sample was sent to the laboratory for sieving and gravimetric determination of asbestos (<7 mm).

Dedicated disposable nitrile gloves were worn for each sampling episode to minimise the potential for cross contamination. Sample containers were filled completely prior to being stored in an ice cooled esky and transported to the laboratory with the samples.

6.3 LABORATORY ANALYSIS

Selected soil samples collected from test pits were submitted to the primary analytical laboratory for analysis for contaminants of concern identified during the preparation of the preliminary CSM. Soil samples were selected based on a combination of site/depth coverage and field observations.

For the chemical samples collected, primary samples and intra-laboratory samples were analysed by Eurofins, with inter-laboratory duplicate samples analysed by Australian Laboratory Services Pty Ltd (ALS). Both laboratories are accredited by NATA for the analytical suites requested.

For the asbestos samples collected, WSP’s internal asbestos laboratory was utilised for sample analysis. WSP’s internal asbestos laboratory is NATA certified for all analyses performed (with the exception of asbestos fines/friable asbestos which is currently unable to be NATA certified due to the detection limits required).

Table 6.2 Laboratory sampling and analysis plan

	ANALYTICAL SUITE			
	Asbestos (NEPM %W/W	Metals	BTEXN, TRH, PAH	PCBS, OCPS, OPPS, PHENOLS
Primary Investigation Analytical Scope (Areas 1, 2, 3)				
Primary Samples Total	60	44	44	10
Intra-laboratory Duplicate	-	4	3	3
Inter-laboratory Duplicate	-	4	3	3
Trip Blank/Trip Spike	-	-	2 (excluding PAH)	-
Contingency 1B Analytical Scope (Areas 4 and 7)				
Primary Samples Total	69	42	42	20
Intra-laboratory Duplicate	-	4	3	
Inter-laboratory Duplicate	-	4	3	
Trip Blank/Trip Spike	-	-	2 (excluding PAH)	-

TRH	Total recoverable hydrocarbons
BTEX compounds	Benzene, toluene, ethylbenzene and xylene
PAHs	Polycyclic aromatic hydrocarbons
8 heavy metals	Arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc
OCPs/OPPs	Organochlorine pesticides/organophosphate pesticides
PCBs	Polychlorinated biphenyls

7 SOIL ASSESSMENT CRITERIA

The assessment criteria for the investigation have been based on an understanding of ongoing land uses, potential receptors and the possibility of off-site disposal of materials. Based on this, assessment criteria provided in the following guidelines have been identified as being applicable for assessing laboratory analytical data:

- NEPC (2013), *National Environment Protection (Assessment of Site Contamination) Measure 1999* (2013 amendment);
- Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE) *Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater, Part 2: Application Document* (Friebel & Nadebaum, 2011); and
- NSW EPA (2014), *Waste Classification Guidelines*.

7.1 HEALTH INVESTIGATION LEVELS AND HEALTH SCREENING LEVELS

Schedule B1 of the NEPM (2013) defines health investigation levels (HILs) that have been developed for a broad range of contaminants in soil. HILs are scientifically based, generic assessment criteria designed to be used in the first stage (Tier 1 or 'screening') of an assessment of potential risks to human health from chronic exposure to contaminants. They are intentionally conservative and are based on a reasonable worst-case scenario for four generic land use settings:

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

Taking into consideration the objectives and purpose of the investigation, it is considered appropriate to access the site based on the current use of the site. As such, public open space soil contaminants (HIL C) have been adopted as the most conservative potential use, consistent with the guidance for secondary schools. The HIL assessment criteria have been summarised in Table 7.1

Health screening levels (HSLs) are applicable to the assessment of vapour intrusion risks arising from petroleum hydrocarbons in contaminated soil via the inhalation and direct contact pathways. NEPM (2013) also provides HSLs for asbestos in soil and these are based on land use and asbestos type. The HSLs methodology provides for a greater range of site circumstances including the depth of contamination and soil texture. These HSLs have been developed for sand, silt and clay soils based on soil texture classifications. Where there is reasonable doubt as to the appropriate soil texture to select, either a conservative selection should be made (i.e. select coarsest applicable grain size such as sand) or laboratory analysis carried out to determine particle size and hence soil texture sub-class. For the purposes of this investigation, the most conservative approach has been selected and the adopted assessment criteria are based on a subsurface profile comprising sand. The HSLs have been incorporated in Schedule B1 in the context of a wider site assessment framework or petroleum hydrocarbon contamination.

Based on the site's current use, public open space, HSL C for sandy soils between 0 m to < 1 m has been adopted. For future buildings footprints, results will be compared to HSL A/B sandy soils between 0 m to < 1 m (as recommended by

NEPM 2013). The adopted asbestos in soil assessment criteria for soil have been provided in Table 7.1.

Table 7.1 Soil assessment criteria – HILs/HSLs

ANALYTE	**LOW DENSITY RESIDENTIAL LAND USE**					**PUBLIC OPEN SPACE LAND USE**						**MAINTENANCE/EXCAVATION WORKERS**			
	HSL A/B (IN SAND)[1] (mg/kg)				**DIRECT CONTACT[3] (mg/kg)**	**HSL C (IN SAND)[1] (mg/kg)**				**HIL C[2] (mg/kg)**	**DIRECT CONTACT[3] (mg/kg)**	**HSLS (IN SAND)[4] (mg/kg)**			**DIRECT CONTACT[3] (mg/kg)**
	0 TO <1 m	**1 TO <2 m**	**2 TO <4 m**	**4 m +**		**0 TO <1 m**	**1 TO <2 m**	**2 TO <4 m**	**4 m +**			**0 TO <2 m**	**2 TO <4 m**	**4 m +**	
TRH C_6-C_{10}	-	-	-	-	4,400	-	-	-	-	-	5,100	NL	NL	NL	82,000
TRH C_6-C_{10} minus BTEX (F1)	45	70	110	200	-	NL	NL	NL	NL	-	-	-	-	-	-
TRH >C_{10}-C_{16}	-	-	-	-	3,300	-	-	-	-	-	3,800	NL	NL	NL	62,000
TRH >C_{10}-C_{16} minus naphthalene (F2)	110	240	440	NL	-	NL	NL	NL	NL	-	-	-	-	-	-
TRH >C_{16}-C_{34}	-	-	-	-	4,500	-	-	-	-	-	5,300	-	-	-	85,000
TRH >C_{34}-C_{40}	-	-	-	-	6,300	-	-	-	-	-	7,400	-	-	-	120,000
Benzene	0.5	0.5	0.5	0.5	100	NL	NL	NL	NL	-	120	77	160	NL	1,100
Toluene	160	220	310	540	14,000	NL	NL	NL	NL	-	18,000	NL	NL	NL	120,000
Ethylbenzene	55	NL	NL	NL	4,500	NL	NL	NL	NL	-	5,300	NL	NL	NL	85,000
Xylene (Total)	40	60	95	170	12,000	NL	NL	NL	NL	-	15,000	NL	NL	NL	130,000
Naphthalene	3	NL	NL	NL	1,400	NL	NL	NL	NL	-	1,900	NL	NL	NL	29,000
PAHs (Total)	-	-	-	-	-	-	-	-	-	300	-	-	-	-	-
Benzo(a)pyrene TEQ[5]	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
HCB	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-
Heptachlor	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-
Aldrin & dieldrin	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-
Chlordane	-	-	-	-	-	-	-	-	-	70	-	-	-	-	-
Endosulfan	-	-	-	-	-	-	-	-	-	340	-	-	-	-	-
DDE, DDD & DDT	-	-	-	-	-	-	-	-	-	400	-	-	-	-	-
Endrin	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-
Methoxychlor	-	-	-	-	-	-	-	-	-	400	-	-	-	-	-
Chlorpyriphos	-	-	-	-	-	-	-	-	-	250	-	-	-	-	-
PCBs (Total)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Bonded ACM	0.01% w/w				-	0.02% w/w				-	-	-	-	-	-
Friable asbestos and asbestos fines	0.001% w/w				-	0.001% w/w				-	-	-	-	-	-
All forms of asbestos	Not visible in surface soil				-	Not visible in surface soil				-	-	-	-	-	-
Arsenic	-	-	-	-	-	-	-	-	-	300	-	-	-	-	-
Cadmium	-	-	-	-	-	-	-	-	-	90	-	-	-	-	-
Chromium	-	-	-	-	-	-	-	-	-	300[6]	-	-	-	-	-

ANALYTE	LOW DENSITY RESIDENTIAL LAND USE					PUBLIC OPEN SPACE LAND USE						MAINTENANCE/EXCAVATION WORKERS			
	HSL A/B (IN SAND)[1] (mg/kg)				DIRECT CONTACT[3] (mg/kg)	HSL C (IN SAND)[1] (mg/kg)				HIL C[2] (mg/kg)	DIRECT CONTACT[3] (mg/kg)	HSLS (IN SAND)[4] (mg/kg)			DIRECT CONTACT[3] (mg/kg)
	0 TO <1 m	1 TO <2 m	2 TO <4 m	4 m +		0 TO <1 m	1 TO <2 m	2 TO <4 m	4 m +			0 TO <2 m	2 TO <4 m	4 m +	
Copper	-	-	-	-	-	-	-	-	-	17,000	-	-	-	-	-
Lead	-	-	-	-	-	-	-	-	-	600	-	-	-	-	-
Mercury	-	-	-	-	-	-	-	-	-	80	-	-	-	-	-
Nickel	-	-	-	-	-	-	-	-	-	1,200	-	-	-	-	-
Zinc	-	-	-	-	-	-	-	-	-	30,000	-	-	-	-	-

(1) NEPM (2013) Schedule B1 Table 1A(3) Soil HSLs for vapour intrusion (mg/kg)
(2) NEPM (2013) Schedule B1 Table 1A(1) Health investigation levels for soil contaminants (mg/kg)
(3) CRC CARE (2011) Table B4 Soil HSLs for direct contact (mg/kg)
(4) CRC CARE (2011) Table B3 Soil HSLs for vapour intrusion (mg/kg)
(5) Benzo(a)pyrene toxicity equivalent quotient (TEQ), calculated as a sum of weighted selected PAHs. Further details available in NEPM (2013) Schedule B2
(6) HIL for chromium VI adopted for total chromium as a conservative approach
(7) Inorganic mercury
\- No assessment criteria available
NL Non-limiting due to maximum vapour concentrations being below the acceptable health risk level

7.2 ECOLOGICAL SCREENING LEVELS AND ECOLOGICAL INVESTIGATION LEVELS

7.2.1 *ECOLOGICAL SCREENING LEVELS*

The NEPM (2013) provides ecological screening levels (ESLs) for TRH, BTEX compounds and PAHs for use as an initial screening risk assessment to determine whether laboratory analysed concentrations of contaminants potentially pose a risk to plant growth. To this investigation, ESLs for ‘urban residential and public open space’ land uses with coarse-grained soil textures have been considered. These are outlined in Table 7.2.

Table 7.2 Soil assessment criteria - ESLs

ANALYTE	ESLs FOR URBAN RESIDENTIAL AND PUBLIC OPEN SPACE (mg/kg DRY SOIL)
TRH F1	180
TRH >C_{10}-C_{16}	120
TRH >C_{16}-C_{34}	300
TRH >C_{34}-C_{40}	2,800
Benzene	50
Toluene	85
Ethylbenzene	70
Xylene (total)	105
Benzo(a)pyrene	0.7

7.2.2 *ECOLOGICAL INVESTIGATION LEVELS*

The NEPM (2013) also provides ecological investigation levels (EILs), which were developed for metals, naphthalene, and pesticides. The EILs take into consideration the physiochemical properties of soil and contaminants and the capacity of the local ecosystem to accommodate increases in the contaminant levels. The EILs are derived using the following equation:

$$EIL = added\ contaminant\ limit\ (ACL) + ambient\ background\ concentration\ (ABC)$$

The ABC is the background contaminant level and requires measurement at appropriate reference points at the site. The ACL, which is provided in the NEPM (2013), is the maximum contaminant concentration added to the naturally occurring background level, exceedances of which may result in adverse effects on plant health.

Tables 1B(4) and 1B(5) of the NEPM (2013) provide generic EILs for aged arsenic and lead, and fresh DDT and naphthalene in soils (irrespective of their physicochemical properties). Aged values are applicable for contamination present in soil for at least two years. EILs are provided for various land uses including ‘areas of ecological significance’, ‘urban residential and open space’ and ‘commercial and industrial’. The ‘urban residential and open space’ land use EILs have been considered for this investigation.

Site-specific EILs for chromium (III), copper, nickel and zinc have been calculated using the CSIRO Ecological Investigation Level Calculation Spreadsheet provided online in the ASC NEPM Toolbox (http://www.scew.gov.au/node/941). These calculations require an understanding of the cation exchange capacity (CEC), clay content, organic carbon, and pH of the residual soil at the site.

Two soil sample were collected from 0.5 mBGL in location TP2_05 and 0.5 mBGL in location TP3_10 and were analysed for CEC, clay content and pH. Based on these analyses, the following values were used for calculations of EILs:

- a CEC of 0.8 and 1.1 cmolc/kg dwt
- clay content of 1 and 1.2 %
- pH of 7.4 and 6.7 respectively.

To calculate aged ABCs, the spreadsheet requires the state and traffic volume to also be entered. These were entered as ‘NSW’ and ‘low’ respectively.

Table 7.3 outlines the EILs (generic and derived) for this investigation.

Table 7.3 Generic and calculated EIL concentrations

ANALYTE	**NEPM (2013) EILs (mg/kg)**
	URBAN RESIDENTIAL AND OPEN PUBLIC SPACES
Arsenic[1]	100
Chromium (III)[2]	410
Copper[2]	35
DDT[1]	180
Lead[3]	1,100
Nickel[2]	6
Zinc[2]	140
Naphthalene[1]	170

(1) NEPM (2013) Schedule B1 Table 1B(5) Generic EILs for aged As, fresh DDT and fresh naphthalene in soils irrespective of their physicochemical properties

(2) Calculated using the CSIRO Ecological Investigation Level Calculation Spreadsheet

(3) NEPM (2013) Schedule B1 Table 1B(4) Generic added contaminant limits for lead in soils irrespective of their physicochemical properties

7.3 WASTE CLASSIFICATION

Soil analytical results were also compared to the waste classification criteria in the NSW EPA (2014) *Waste Classification Guidelines*. This was done to provide an indicative, in situ waste classification for soil in the event that remediation is required.

The waste criteria include contaminant thresholds (CTs) for total concentrations of compounds in soil, as well as higher specific contaminant concentrations (SCCs) for total concentrations when leachability testing is also performed. The SCCs can only be used in combination with the results of toxicity characteristic leaching procedure (TCLP) results. To classify material as general solid waste, the total concentration for each compound must be less than the CT1 value or the SCC1 where the leachate result is also below the TCLP1 value (i.e. for benzo(a)pyrene in this investigation). Any waste that contains asbestos in any form is classified as Special Waste, in addition to its chemical classification.

The relevant criteria from the waste guidelines are presented in Table 7.4.

Table 7.4 NSW EPA soil criteria for waste classification

	GENERALSOLID WASTE			RESTRICTED SOLID WASTE		
	NO TCLP	WITH TCLP TEST		NO TCLP	WITH TCLP TEST	
	CT1 (mg/kg)	TCLP1 (mg/L)	SCC1 (mg/kg)	CT2 (mg/kg)	TCLP2 (mg/L)	SCC2 (mg/kg)
TRH & BTEX						
TRH C_6-C_9	650	-	-	2,600	-	-
TRH C_{10}-C_{36}	10,000	-	-	40,000	-	-
Benzene	10	-	-	40	-	-
Toluene	288	-	-	1,152	-	-
Ethylbenzene	600	-	-	2,400	-	-
Xylene (total)	1,000	-	-	4,000	-	
PAHs						
Benzo(a)pyrene	0.8	0.04	10	3.2	0.16	23
Total PAHs	200	-	-	800	-	-
HEAVY METALS						
Arsenic	100	-	-	400	-	-
Cadmium	20	-	-	80	-	-
Chromium (Vi)	100	-	-	400	-	-
Lead	100	-	-	400	-	-
Mercury	4	-	-	16	-	-
Nickel	40	-	-	160	-	-
PCBs & OCPs						
Total PCBs	<50	-	-	<50	-	-
Scheduled chemicals (incl. OCPs)	<50	-	-	<50	-	-

8 INVESTIGATION RESULTS

8.1 SUBSURFACE CONDITIONS

A summary of the subsurface profile encountered during intrusive works is presented in Table 8.1.

Table 8.1 General subsurface profile

DEPTH (mBGL)	**GENERAL SOIL DESCRIPTION**
0.0 m to 0.4 m	Fill; Sand; pale brown or grey, fine grained, dry, with minor signs of contamination including discoloured soil and evidence of construction and demolition waste. Trace evidence including slag, gravel and brick debris, charcoal and other debris was noted in multiple locations in each of the investigation areas.
0.4 m to 0.6 m	Natural; Sand; pale/brown, red/orange or yellow, Fine grained, Dry.

During intrusive works an asbestos frag was observed in Test pit TP2_14.

Site photographs are presented in Appendix D. Environmental test pit logs are provided in Appendix E, sampling locations are shown on Figures 3 to 8 Appendix A.

8.2 HIL/HSL EXCEEDANCES

All results for BTEX, PAHs, OCPs, OPPs and PCBs in soil were below the adopted human health criteria for the site. Concentrations of TRH (F3), and heavy metals Arsenic, Chromium, Copper, Lead, Nickel, and Zinc were reported above the PQLs with concentrations below the adopted human health criteria for the site.

A single concentration of benzo(a)pyrene TEQ identified in TP3_21_0.1 exceeded the adopted human health criteria for the site.

Sample results with assessment criteria are shown on Tables B1 of Appendix B and Laboratory Certificates are presented in Appendix F.

8.3 ESL/EIL EXCEEDANCES

All results for BTEX, PAHs, OCPs, OPPs and PCBs in soil were below the adopted ecological criteria for the site, with concentrations of TRH (F3), heavy metals Arsenic, Chromium, Copper, Lead, Nickel, and Zinc were above PQLs with concentrations below the adopted ecological criteria for the site.

One sample of benzo(a)pyrene (TP3_21_0.1) one sample of TRH (F3) in (TP3_21_0.1) and fifteen different samples of Nickel exceeded the adopted EILs.

Sample results with assessment criteria are shown on Tables B1 of Appendix B and Laboratory Certificates in Appendix F.

8.4 WASTE CLASSIFICATION

The results of the laboratory analyses were compared to the contaminant threshold values for classifying waste by chemical assessment as detailed in Table 1 and 2 of the NSW EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste*. All results were below the CT1 and CT2 criteria for General Solid Waste-Non-putrescible, except for Benzo(a) pyrene and Sum of total PAHs in TP1_08_0.1 and TP3_21_0.1 respectively.

One positive asbestos soil sample result was identified in TP1_07_0.1 and one ACM fragment was observed in TP2_14_0.1. Additional asbestos containing materials were identified in a further six locations across the site during the heritage investigation works conducted prior to the fieldworks for this investigation. ACM fragments were identified at the ground surface outside the investigation area, and within some heritage excavation locations. The locations where asbestos was identified during the heritage and contamination assessment works are provided in Figure 9 of Appendix A. Based on previous works conducted at the site, the Site-Specific Asbestos Management Plan for the school considers all areas within the school property impacted with asbestos contamination and the SSAMP specifies that any excavated or impacted soil material is required to be treated as asbestos containing accordingly. Based on these sample results and factors, the waste classification for the assessed material has an *Asbestos - Special Waste* classification.

Laboratory analysis results are presented in Appendix F. Chemical waste classification results are presented in Table B2 Appendix B.

9 QUALITY ASSURANCE / QUALITY CONTROL

9.1 DQIS FOR ANALYTICAL DATA

The DQIs for sampling techniques and laboratory analyses of collected representative soil samples define the acceptable level of error required for this investigation. The DQOs have been assessed by reference to the attributes presented in Table 9.1.

Table 9.1 Data quality indicators

DQI	DESCRIPTION	APPLICABILITY
Representativeness	The confidence that the data are representative of each media present on the site. Expresses the degree to which sample data accurately and precisely represents a characteristic of a population or an environmental condition. Controlled through selecting sampling locations that exemplify site conditions and obtaining suitable samples.	Consistent and repeatable sampling techniques and methods were utilised.
Precision	The quantitative measure of the variability (or reproducibility) of data. Expressed as relative percentage differences (RPDs), assessed by determining the RPDs between the original and duplicate samples tested. Validity of the data is questioned if the RPD limits are exceeded and upon further investigation a reason cannot be determined.	Work was conducted in accordance with WSP standard procedures. The precision of the data was assessed by calculating the RPDs of duplicate samples following AS 4482.1 (2005).
Accuracy	The quantitative measure of the closeness of reported data to the true values. Accuracy can be undermined by such factors as field contamination of samples, poor preservation, or preparation techniques.	Accuracy was assessed by using equipment blanks and laboratory QA/QC analytical results (including laboratory control samples, spikes, and reference samples).
Completeness	The measure of the amount of usable data from a data collection activity. Valid chemical data are the values that have been identified as acceptable or validated.	The completeness goal was set at there being sufficient valid data generated during the study. Measurements made were judged to be valid measurements.

DQI	DESCRIPTION	APPLICABILITY
Comparability	The confidence that data may be considered to be equivalent for each sampling analytical event, i.e. the confidence with which one data set can be compared with another. Achieved through qualitative assessment of QA/QC procedures, using comparable field sampling, laboratory sample preparation and analytical procedures and reporting units.	The sampling was in general accordance with the sampling and analysis procedures and as per standard industry and internal procedures. Each sample was analysed using identical methods for each analyte and laboratory practical quantitation limits (PQLs) were consistent over each laboratory batch. A check laboratory was used to provide data to make a comparative assessment of variability between laboratories.

Table 9.2 summarises conformance to specific QA/QC procedures.

Table 9.2 Data quality assurance

ITEM	OBJECTIVES MET
Environmental consultant	The environmental consultant maintains Quality Assurance Systems certified to AS/NZS ISO 9001:2000. Qualified and experienced environmental scientists with 2 to 5 years' experience completed field works.
Procedures	All work was conducted in accordance with relevant statutory work health and safety (WHS) and environmental sampling guidelines (NEPM (2013), NSW EPA (2022) and WA DoH 2009), as well as standard company WHS and environmental field procedures. Standard field sampling sheets were used. Details recorded included WSP staff and contractors present, time on/off-site, weather conditions, calibration records and comments.
Sampling	Collection of samples was undertaken by appropriately qualified and experienced personnel following WSP standard field procedures which are based on industry accepted standard practice. Chain of custody was used to ensure the integrity of samples from collection to receipt by the laboratory.
Field equipment	Equipment was serviced and calibrated as per the manufacturer requirements.
Equipment decontamination	Undertaken after each sampling episode where equipment used was not dedicated. Rinsate blanks to be below PQLs for the potential contaminants (one rinsate blank per batch). Field sampling procedures conformed to WSP QA/QC protocols to prevent cross-contamination, preserve sample integrity, and allow for collection of a suitable data set from which to make technically sound and justifiable decisions with data of satisfactory usability. QA/QC sample results are presented in in Table C1,Appendix C.
Transportation	Samples were stored in chilled eskies on-site and during transport to the laboratory. A chain of custody form was completed on-site and sent with the samples. The laboratory confirmed receipt of the samples and specified the condition on delivery and the scheduled analyses. Appropriate holding times were met. Trip blank samples were carried during field works (at a rate of one per sample batch) to assess contamination through field activities and transport. Results were below laboratory PQLs.

ITEM	OBJECTIVES MET
Field QA/QC	Four rinsate blanks were collected during the soil field works. The rinsate blanks were analysed for TRH, TPH and BTEX compounds. Three trip blanks were analysed for TRH, TPH and BTEX compounds. All results were below PQLs. QA/QC sampling was undertaken to industry standard procedures including approximately 1 in 20 blind duplicates (intra-laboratory) to the primary laboratory and approximately 1 in 20 blind duplicates (inter-laboratory) to the secondary laboratory. Field and laboratory acceptable limits are between 30-50% RPD as stated by AS 4482.1-1997. Non-compliances have been documented in Section 9.2 of this report.
Laboratory analysis	Analysis was carried out by laboratories with NATA certification for the required analyses except for asbestos quantification. NATA has noted that there is no accepted valid method in Australia for this estimation and that they do not offer accreditation for this activity. Detection limits were sufficient to enable comparison against the appropriate guidelines. All PQLs adopted by the laboratories were less than the adopted assessment criteria. Although the primary laboratory has adopted a PQL of 0.001% for FA/AF, it is noted that there are limitations inherent in the adopted methodology. Although some forms of asbestos can be detected to this limit, due to the limitations there is the potential that free respirable asbestos fibre contamination exists within samples at concentrations up to an order of magnitude greater than the reported detection limit. In the absence of an alternative method with a more appropriate PQL, this methodology has been adopted and the limitations of the method noted.
Acceptable limits for QA/QC samples	Primary laboratory QA/QC acceptance limits for recovery of surrogates, control samples are matrix spikes to be 70 to 130% for organics and 80 to 120% recovery for inorganics and waters. All method blanks to be less than PQL.
Reporting	Report generally complies with the NEPM (2013).

9.2 FIELD QA/QC

The following sections discuss the field QA/QC program. Summary tables of QA/QC results are provided in Appendix C, and the results for internal and external QA/QC procedures are provided within the laboratory analysis reports in Appendix F.

9.2.1 DUPLICATES

The field QA/QC soil sampling program comprised collection and analysis of eight intra-laboratory duplicates and inter-laboratory duplicates QA01 (duplicate) and QA01A (triplicate) – collected from TP1_03_0.1, QA03 (duplicate), QA03A (triplicate) collected from TP3_01_0.2), QA04 (duplicate) and QA04A (triplicate) – collected from TP3_15_0.1, QA06 (duplicate) and QA06A (triplicate) – collected from TP2_11_0.1, QA08 (duplicate) and QA08A (triplicate) – collected from TP7_04_0.1, QA09 (duplicate) and QA09A (triplicate) – collected from TP7_01_0.1, QA10 (duplicate) and QA10A (triplicate) – collected from TP4_17_0.1 and QA11 (duplicate) and QA11A (triplicate) – collected from TP4_10_0.1, analysed for TRH, BTEX, PAHs, OCPs, OPPs, PCBs, phenols and heavy metals.

No field duplicate analysis was undertaken for asbestos quantification. The purpose of collecting duplicate samples is to measure the potential for inaccuracy in sample results due to field or laboratory procedures. Analysis of anonymised duplicate samples by the primary and secondary laboratories serves to determine the degree to which sample analyses which should provide identical results do, in fact, provide them. The way this is measured is through the calculation of RPDs.

For contaminants which are discrete within the matrix being sampled, such as bonded asbestos, fibrous asbestos and asbestos fines in soil, the duplication of a particular sample does not logically support the objective of duplicate sampling. Chemical contaminants tend, through a variety of processes, to diffuse towards homogeneous concentrations. However, as asbestos contamination represents foreign bodies present in the soil which do not diffuse except through mechanical mixing there is no logical expectation of similar quantities in any two discrete samples, even two samples split from one larger one. Therefore, the results of the analyses of two such samples should not be expected to comply with the same RPD criteria by which chemical contaminants are measured.

RPDs were calculated for the primary and duplicate samples for assessment of the data quality, for assessment of the reproducibility of the analytical data measurements or 'precision' given the adopted field and laboratory methods.

The RPDs were calculated using the formula below, and the results are presented in Table C1, Appendix C.

$$RPD\% = \frac{|Ro - Rd|}{|(Ro + Rd)/2|} \times 100\%$$

Where Ro is the primary sample and Rd is the primary duplicate.

The RPD values were compared to the 30–50% RPD acceptance criterion outlined in Australian Standard AS 4482.1 (for non- and semi-volatiles in soil) and NEPM (2013) Schedule B3. For volatile compounds no published RPD acceptance criteria exist, however RPDs of <100% are considered acceptable where concentrations are at least 10 times the PQL. RPDs for results less than the PQL were not calculated. In instances where results were greater than the PQL for the one sample, but below PQL for the corresponding primary or duplicate sample, a result equal to the PQL was adopted to calculate an RPD.

A majority of RPDs were within the required criteria (RPD's of between 30-50%) except for several TRH and PAH analytes in QA samples QA03 and QA06 and TPH results from QA samples QA03, QA09 and QA11. These exceedances are attributed to the samples being within a heterogenous fill layer. For the purposes of this investigation, the RPD results are acceptable.

9.3 LABORATORY QA/QC

Quality control parameter frequency compliance, provided by both laboratories, generally indicated that quality control analysis was undertaken within the required frequency and matrix spike recoveries were reported to be within recovery limits. Exceptions were noted within the primary sample batches, two OCP duplicate tests, five Heavy Metal duplicate analysis result and one PAH duplicate analysis result outside the acceptable criteria range. One additional PAH spike analysis result criteria exceedance was also noted in the leachate sample analysis completed. For the purposes of this investigation, the Lab QA/QC results are considered acceptable

9.4 SUMMARY OF QA/QC RESULTS

WSP considers that the sample collection, documentation, handling, storage, and transportation procedures utilised are of an acceptable standard and the analytical results provided by the laboratories are deemed reliable and complete, therefore the data are considered fit for purpose.

It is considered that the QA/QC procedures and results were acceptable and that the conclusions of the report have not been significantly affected by the sampling or analytical procedures. Based on the results of laboratory QA/QC samples and the sampling and handling procedures used for the collection and analysis of soil, the data were considered representative and appropriate for use in this assessment.

10 DISCUSSION OF RESULTS

10.1 SITE SUITABILITY ASSESSMENT

During the test pit excavation works, minor signs of contamination including discoloured soil and evidence of construction and demolition waste were noted in the investigated areas. Additionally, in multiple locations in each of the investigation areas, trace evidence including slag, gravel and brick debris, charcoal and other debris was noted.

10.1.1 CHEMICAL RESULTS

All results for BTEX compounds, PAHs, OCPs, OPPs and PCBs in soil were below the adopted human health and ecological criteria for the site.

Exceedances were detected in 15 Nickel samples, two exceedances of benzo(a)pyrene TP1_08_0.1 and TP3_21_0.1 and a TRH of C16-C34 Fraction (F3) identified in TP3_21_0.1. Furthermore, the sample TP3_21_0.1 was identified to have concentrations of benzo (a) pyrene in excess of 250% of the adopted human health investigation level, which can be considered at a 'hotspot' concentration. All other exceedances were associated with ecological criteria.

Detectable concentrations of most heavy metals (except for cadmium and Mercury) and hydrocarbons were reported in the fill and natural soil samples analysed, with exceedances the ecological criteria on nickel noted in each of the different areas investigated. Results indicated that elevated Nickel and the single TPH F3 exceedance is largely localised to either fill or topsoil, and additionally, there is no evidence of stressed vegetation on the site. Implementation of the proposed development design will mitigate any potential ecological impacts due to do the significant ground disturbance works required to be undertaken and removal of localised potential receptors as a result of the end development.

Two exceeding samples of benzo(a)pyrene exceeded either the adopted ecological or human health criteria. As noted in NEPC (2013) *National Environment Protection (Assessment of Site Contamination) Measure 1999 – Volume 11: The Derivation of HILs for PAHs and Phenols*, the human health criteria which have been applied to the site have been derived based upon the assumption of 100% bioavailability of the contaminant.

> *In addition it is noted that BaP (and PAHs) present in bitumen fragments are largely immobile and typically have a low bioavailability. However, as bioavailability is highly site- and source-specific, insufficient data is available to adequately define a value that differs from the default approach of 100% oral bioavailability. It is noted that a site-specific assessment of bioavailability can be undertaken where required.*

The means by which site-specific assessment of bioavailability can be undertaken is further developed in CRC Care (2017), *Technical Report No. 39 – Risk-based Management and Remediation Guidance for Benzo(a)pyrene*. The Technical report notes that the NEPM HSL/HIL for PAH does not account for bioavailability of BaP and actual toxicity can reduce through a number of processes including sorption to organic material, ageing, matrix composition, etc. As such the Technical Report notes that:

> *In understanding the implications of the exceedances of the screening values, and the risks posed by B(a)P contamination to human and ecological receptors, it is important to develop a site-specific CSM. The CSM should detail the source, potential receptors, exposure pathways by which receptors may come into contact with B(a)P, and the likelihood that B(a)P may be present in less bioavailable form.*

WSP has undertaken a multiple lines of evidence approach to characterise the potential bioavailability of the identified PAH concentrations. The lines of evidence applied to this bioavailability assessment include the following:

- Source characterisation using statistical methods derived from Mulvey and McKay (2006), Source Characterisation and Identification as a Means of Assessing the Type of Bonding in Soil and its Subsequent Impact on Bioavailability; and

- Leachability assessment of the samples with elevated PAH concentrations to assess the mobility of the contaminant.

The elevated B(a)P concentrations are derived from samples collected from the observed fill layer and the test pit logs identify any potentially PAH containing materials (e.g. ash, coke and coal, tar, etc.) so it is clear that the fill is the source of the PAH impact. Previously investigation have not been able to identify the possible sources of imported fill, however, these materials are generally attributed a low potential for bioavailability and mobility within the environment.

As an additional line of evidence for characterising PAH risk, PAH source signature analysis was conducted using the two source characterisation methods described in Mulvey and McKay (2006), Source Characterisation and Identification as a Means of Assessing the Type of Bonding in Soil and its Subsequent Impact on Bioavailability. The results are presented in Appendix B.

Source analysis Method 1 compares analytical sample data to known concentrations in various reference materials by calculation of the correlation coefficient. A coefficient of 1 being a perfect match to corresponding reference material and a result approaching 0 being a poor fit. Based on method 1 results from the samples with detectable PAH concentrations are indicative of being derived from a coal, ash or coke source (indicative of a low potential for bioavailability and supported by the leachability results).

Source analysis Method 2 is based on a summed difference between individual PAHs in both reference materials and unknown samples, normalised to pyrene. Values returned as <1 indicate high degree of similarity to the reference material present. The Method 2 results confirm the findings of Method 1, and also shows that the detectable PAH concentrations are indicative of being derived from a coal, ash or coke source.

Both these statistical methods of source analysis and the historical assessment of potential sources of on-site filling indicate that PAHs within the fill material at the site are derived from coal, coke or ash-based sources and therefore present a reduced risk of bioavailability.

This conclusion is further supported by the leachability testing undertaken on the samples with the highest PAH concentrations. The non-leachable nature of the PAHs indicates that they are not derived from coal tars or other sources with a higher mobility and bioavailability. Additionally, the leachability testing demonstrates that the identified elevated PAH concentrations are generally immobile and therefore present a negligible risk of impacting groundwater beneath the site.

10.1.2 ASBESTOS RESULTS

Friable ACM in the form of loose fibre bundles in soil was reported to be present in TP2_07 and a non-friable ACM fragment was identified in TP2_14. Additional asbestos containing materials were identified in a further six locations across the site during the heritage investigation works conducted prior to the fieldworks for this investigation. ACM fragments were identified at the ground surface outside the investigation area, and within some heritage excavation locations. The locations where asbestos was identified during the heritage and contamination assessment works are provided in Figure 9 of Appendix A.

Based on previous works conducted at the site, the Site-Specific Asbestos Management Plan for the school considers all areas within the school property impacted with asbestos contamination and the SSAMP specifies that any excavated or impacted soil material is required to be treated as asbestos containing accordingly. Based on these sample results and factors, all areas on the site are required to be considered asbestos impacted.

10.2 IN-SITU WASTE CLASSIFICATION

Based on the results there were exceedances of the CT1 and CT2 criteria for General Solid Waste – Non-putrescible. TP1_08_0.1 and TP3_21_0.1. Additionally, asbestos was identified during intrusive works which characterises special waste under NSW EPA 2014.

One positive asbestos soil sample result was identified in TP1_07_0.1. FA/AF testing of this sample identified that the friable materials were below the HSL threshold (0.001 %w/w). Additionally, one ACM fragment was observed in TP2_14_0.1. Additional asbestos containing materials were identified in a further six locations across the site during the heritage investigation works conducted prior to the fieldworks for this investigation. ACM fragments were identified at the ground surface outside the investigation area, and within some heritage excavation locations. The locations where asbestos was identified during the heritage and contamination assessment works are provided in Figure 9 of Appendix A. Based on previous works conducted at the site, the Site-Specific Asbestos Management Plan for the school considers all areas within the school property impacted with asbestos contamination and the SSAMP specifies that any excavated or impacted soil material is required to be treated as asbestos containing accordingly. Based on these sample results and factors, the waste classification for the assessed material has an *Asbestos - Special Waste* classification.

It is noted that this in-situ waste classification is based on samples collected from discrete test pit locations and did not involve visual observation of stockpiled materials.

Excluding the hotspot identified in TP3_21_0.4 with a CT2 criteria exceedance (Restricted Solid Waste), generally the soil material on site can be considered ***General Solid Waste – Non-putrescible (Special Waste – Asbestos).***

10.3 UPDATED CSM

Table 10.1 provides an updated CSM, which has been revised based on the findings of the desktop and TESA fieldwork.

Table 10.1 Updated CSM

SOURCES OF IMPACT	IMPACTED MEDIA	IDENTIFIED SENSITIVE RECEPTORS	POTENTIAL EXPOSURE PATHWAYS	RISK EVALUATION
Fill containing elevated Nickel concentrations	Soil	— Ecological receptors accessing the soil as growing media	— Ingestion or dermal contact	**Negligible risk:** In total, 15 of the 88 samples analysed for Nickel exceed the ecological criteria due to the low-level calculation EIL. However, results indicate that elevated nickel is largely localised to either fill or topsoil, and additionally, there is no evidence of stressed vegetation on the site. Implementation of the proposed development design will mitigate any potential ecological impacts due to do the significant ground disturbance works required to be undertaken and removal of localised potential receptors as a result of the end development.
	Groundwater	— Ecological communities utilising groundwater — Surrounding users of groundwater	— Ingestion or dermal contact with potentially contaminated groundwater	**Potential risk**: Groundwater is inferred to be located at depth in the natural residual soils and not directly contacting potentially impacted fill material. However, nickel may have the potential to leach into the natural profile and come into contact with groundwater. Investigations undertaken to date have identified nickel impacts in the fill material. However, the site and general area is not connected to the reticulated water system and groundwater extraction for beneficial use at and surrounding the site is unlikely. In addition, potential groundwater impacts are unlikely to have migrated into the deeper regional aquifer in which extraction bores would be installed. Additionally, human health risk is considered unlikely as no exceedances of the human health criteria were identified. Exposure during construction or maintenance works would be expected to be managed under standard work health and safety requirements.

SOURCES OF IMPACT	IMPACTED MEDIA	IDENTIFIED SENSITIVE RECEPTORS	POTENTIAL EXPOSURE PATHWAYS	RISK EVALUATION
	Surface water and riverbed sediments	— Recreational users of the Hunter River — Aquatic ecosystems of the Hunter River	— Ingestion or dermal contact with potentially contaminated surface water in Hunter River — Toxic effects to aquatic ecosystems in Hunter River	**Negligible risk:** Any groundwater discharge from the site is unlikely to significantly alter the water quality based on concentrations observed in contaminants of concern identified in soil and fill on site.
Fill containing elevated TRH and B(a)P concentrations	Soil	— Human receptors (site users and excavation/maintenance workers) — Ecological receptors accessing the soil as growing media	— Ingestion or dermal contact with potentially contaminated surface soils or near surface soils — Inhalation of dust	**Potential risk:** Elevated concentrations of TRH (F3) and B(a)P have been identified in the soil samples with one sample location identifying the TRH ecological exceedance and the BAP ecological and human health exceedances. The human health exceedance was observed to be at a hotspot concentration of >250% of the HIL for benzo(a)pyrene TEQ. Elevated concentrations are predominantly associated with the fill material situated in localised sample location. Therefore, until further delineation has occurred, there is a potential exposure risk due to contact with potentially impacted fill material.
Fill and demolition waste containing construction waste, Asbestos	Soil: Surface and Subsurface deposits in the soil profile	— Current users of the site — Onsite construction or utility workers — Occupiers of commercial/residential properties surrounding the site	— Ingestion or dermal contact with potentially contaminated surface soils or near surface soils — Inhalation of dust — Inhalation of airborne ACM fibres	**Potential risk:** Friable and Non-Friable asbestos have been identified during the investigations as well as historically as part of previous investigations. Therefore, there is a potential exposure risk on the site to site users and occupants, and potentially construction or maintenance workers.

11 DUTY TO REPORT

The *Contaminated Land Management Act 1997* (CLM Act) grants powers to the NSW EPA to regulate contaminated sites, including the establishment of the guidelines regarding the duty to report contamination. The criteria used to assess contamination to determine whether reporting is required is provided in the *Guidelines on the Duty to Report Land Contamination under the Contaminated Land Management Act 1997* (NSW EPA, 2015). The sections below present the results of WSP's review of the findings to date with relation to chemical contamination and asbestos.

11.1 BENZO(A)PYRENE TEQ DUTY TO REPORT

The following tables present the assessment criteria presented within NSW EPA 2015 for comparison with the identified Benzo(a)pyrene TEQ sample exceedance as well as WSPs interpretation of site results against the relevant criteria.

Table 11.1 On-site Benzo(a)pyrene TEQ Contamination – Duty to Report

CRITERION	**WSP OBSERVATIONS**
The 95 % upper confidence limit on the arithmetic average concentration of a contaminant in or on soil is equal to or above the Health Investigation Level and/or Health Screening Level for that contaminant for the current or approved use of the respective on-site land, as specified in Section 6, Schedule B1 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC 2013); OR	Only one exceedance of the adopted human health criteria so no 95% UCL calculated for the dataset.
The concentration of a contaminant in an individual soil sample is equal to or more than 250% of the Health Investigation Level and/or Health Screening Level for that contaminant for the current or approved use of the respective on-site land, as specified in Section 6, Schedule B1 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC 2013); AND	The identified benzo(a)pyrene TEQ exceedance is more than 250% of the adopted HIL for the site and therefore this criterion is triggered.
A person has been or foreseeably will be exposed to the contaminant or a by-product of the contaminant.	Leachability (ASLP) testing of detectable benzo(a)pyrene TEQ within the dataset demonstrated that the contaminant is of low mobility/leachable and additional statistical characterisation indicates that the benzo(a)pyrene TEQ are likely to be derived from sources of low bioavailability. Therefore, it is considered that this criterion is not triggered.

Based upon the above, in our role as environmental consultant it is considered that the benzo(a)pyrene TEQ HIL exceedance identified on the site does not trigger a duty to notify NSW EPA of this contamination.

11.2 ASBESTOS IN SOIL DUTY TO REPORT

The following tables present the assessment criteria presented within NSW EPA 2015 for comparison with the identified Asbestos sample exceedances as well as WSPs interpretation of site results against the relevant criteria.

Table 11.2 Asbestos in, or on, Soil – Duty to Report

CRITERION	**WSP OBSERVATIONS**
Friable asbestos is present in or on soil on the land; AND	Friable asbestos was identified in one sample across the site and has been identified in multiple locations and occurrences during previously conducted works at the site. Therefore, it is considered that this criterion has been triggered.
The level of asbestos (% weight for weight) in an individual soil sample is equal to or above the health screening level of friable asbestos in soil (0.001%) specified in Section 4.8, Schedule B1 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC 2013); AND	To date no samples tested for FA/AF have identified results exceeding the HSL of 0.001 %w/w. One sample (TP2_07_0.1) identified asbestos fibre bundles but the total concentration was below the HSL. In total, during the current investigation 129 samples were analysed for FA/AF and all results were below the HSL. All detectable asbestos in soil results to date have been related to fibre cement sheet fragments. Therefore, it is considered that this criterion has not been triggered.
A person has been, or foreseeably will be, exposed to elevated levels of asbestos fibres by breathing them into their lungs.	Across the investigation area, while multiple fragments of bonded asbestos were identified no HSL exceedances were identified for friable asbestos. All previously conducted air monitoring undertaken during intrusive investigations, and monitoring from this investigation, was done so in accordance with *National Occupational Health and Safety Commission (2005), Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]* and did not record airborne fibre concentrations above the detection limit of <0.01 fibres/mL. Therefore, it is considered that this criterion has not been triggered.

WSP note that friable asbestos has been identified on the investigation site, although levels were below the adopted criteria. Due to the inferred lack of foreseeable human exposure pathways, in our role as environmental consultant WSP consider that the friable asbestos identified on the site do not trigger a duty to notify NSW EPA. However, due to the statutory nature of the duty to notify under the *Contaminated Land Management Act 1997*, it is recommended that legal advice be sought by SINSW.

12 CONCLUSIONS AND RECOMMENDATIONS

12.1 CONCLUSIONS

The TESA works were undertaken to assess the current contamination status of the three specified investigation areas comprising the site, and potential risks associated with this contamination to the proposed development plan. The results of the investigation indicated the following:

- Evidence of minor visible signs of contamination including discoloured soil and evidence of construction and demolition waste were noted in the investigated areas. Additionally, in multiple locations in each of the investigation areas, trace evidence including slag, gravel and brick debris, charcoal and other debris was noted.
- All analytical results for the samples collected were below the adopted site criteria. Except for two benzo(a)pyrene samples from sample locations TP1_08_0.1 and TP3_21_0.1 and one TPH C16-C34 Fraction (F3) sample from TP3_21_0.1. A further fifteen Nickel EIL exceedances identified across all the areas investigated.
- Results indicated that elevated Nickel and the single TPH C16-C34 Fraction (F3) exceedance is largely localised to either fill or topsoil, and additionally, there is no evidence of stressed vegetation on the site. Implementation of the proposed development design will mitigate any potential ecological impacts due to do the significant ground disturbance works required to be undertaken and removal of localised potential receptors as a result of the end development.
- Based on the statistical methods of source analysis undertaken, the PAHs identified within the fill material at the site are derived from coal, coke or ash-based sources and therefore present a reduced risk of bioavailability. Additionally, the leachability testing demonstrates that the identified elevated PAH concentrations are generally immobile and therefore present a negligible risk of impacting groundwater beneath the site.
- One non-friable fragment of asbestos was identified in test TP2_14 in the investigation area as well as at several locations during the previously conducted heritage investigation work. Additionally, a second test pit TP2_07 noted a trace presence of friable concentrations of Asbestos within the fill material. FA/AF testing of this material identified that the concentration was below the adopted health screening criteria. Note that no friable materials exceeding the HSLs were identified in surface materials sampled during the works (indicating that direct contact risk due to day-to-day activities is limited).
- The identified non-friable asbestos fragments in fill were not able to be directly compared the HSLs criteria for ongoing operation of the site as a secondary school due to the absence of any direct criteria. Based on the asbestos in soil sampling undertaken during the fieldwork investigations, no HSL criteria exceedances were noted in the sample results reported, however, the presence of friable concentrations was confirmed within the investigation area. These materials have largely been identified as being associated with the fill noted across the proposed development area.
- Airborne fibre monitoring undertaken during the intrusive works as well as during previous on-site activities (did not measure airborne fibre concentrations in the air (i.e. below the detection limit of <0.01 fibres/mL) which indicates a low inhalation risk if impacted materials are exposed. However, there is a continued risk associated with the presence of friable asbestos at depth and bonded asbestos becoming exposed at the surface.
- An in-situ waste classification was undertaken based on the laboratory results of soil samples collected from the site. Excluding the hotspot identified as TP3_21_0.1, the fill material within the investigation area at the site is classified as **Special Waste (Asbestos) in a matrix chemically consistent with General Solid Waste – Non putrescible**. The Special Waste classification is due to the asbestos presence identified in the soil. The material identified in

TP3_21_0.1 was classified as **Special Waste (Asbestos) in a matrix chemically consistent with Restricted Solid Waste**. Please note that this Waste classification is limited to the reduced areas of investigation and does not include the areas excluded due to the culturally sensitive artefact identified on the site.

- Based on the sample results and analysis completed, WSP does not consider that the exceedances identified on the site fulfill the criteria required to trigger a duty to notify NSW EPA of this contamination.

12.2 RECOMMENDATIONS

Based on the results of this assessment WSP considers that the site is not suitable for the proposed development until further remediation has occurred. WSP recommends that remediation is necessary before any development works proposed to be undertaken across the all the proposed development area:

- Based on the site works completed WSP recommend further investigation be undertaken within the culturally sensitive artefact exclusion zones following the completion of further delineation investigation works for the culturally sensitive artefact locations and approval and acceptance of any relevant and required permits and management plans for any identified heritage areas within the proposed development area. The sampling to be undertaken will form part of the additional waste classification necessary to inform the later stages of the planned development include a revised Remedial Action and Plan and final development design.
- WSP recommend further sampling be conducted to delineate the hotspot impact identified exceedances in the test pit location TP3_21. This is recommended to reduce the volume of soil required to be designated with a ***Restricted Soil Waste (Special Waste – Asbestos)*** classification and minimise the cost impact of disposal of that material offsite.
- Delineation sampling conducted in a southern and eastern direction from the test pit would encroach on the heritage exclusion zones, so consideration of the timing of delineation sampling needs to be undertaken with the component of field work also required to after any additional heritage delineation investigation works and the implementation of any permits of management plans at the site, permitting the works to proceed.
- Following the delivery of this TESA and the supplementary reporting of the information from the additional sampling to be conducted, WSP recommend a revised CSM and a remedial action plan (RAP) be developed for the site, with remedial measures implemented as part of the planned development at the site.
- Based on the confirmation of the presence of asbestos in a non-friable and friable state at the site and within the proposed development footprint, a review of the Site-Specific Asbestos Management Plan and the Overarching Asbestos Management Plan for School Infrastructure NSW should be undertaken as part of the ongoing planning of proposed development to ensure any remedial or management measures that are required to be undertaken as part compliance with SINSW procedures and policies are met.

WSP notes that the investigations outlined in this TESA were specifically for Areas 1, 2, 3, 4 and 7 and does not assess any soil material within the heritage exclusion zone at the site as presented in Figure 2 of Appendix A. The TESA does not provide a suitability assessment for the wider school property.

This report should be read with reference to the limitations presented in Section 13 of this report.

13 LIMITATIONS

This Report is provided by WSP Australia Pty Limited (*WSP*) for Department of Education NSW (*Client*) in response to specific instructions from the Client and in accordance with WSP's proposal dated 12 December 2022 and agreement with the Client dated 21 December 2022 (*Agreement*).

13.1 PERMITTED PURPOSE

This Report is provided by WSP for the purpose described in the Agreement and no responsibility is accepted by WSP for the use of the Report in whole or in part, for any other purpose (*Permitted Purpose*).

13.2 QUALIFICATIONS AND ASSUMPTIONS

The services undertaken by WSP in preparing this Report were limited to those specifically detailed in the Report and are subject to the scope, qualifications, assumptions, and limitations set out in the Report or otherwise communicated to the Client.

Except as otherwise stated in the Report and to the extent that statements, opinions, facts, conclusion and / or recommendations in the Report (*Conclusions*) are based in whole or in part on information provided by the Client and other parties identified in the report (*Information)*, those Conclusions are based on assumptions by WSP of the reliability, adequacy, accuracy, and completeness of the Information and have not been verified. WSP accepts no responsibility for the Information.

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REFERENCES

- Australian Standard AS 4482.1-1997, Guide to the sampling and investigation of potentially contaminated soil non-volatile and semi-volatile compounds.
- Australian Standard AS4964 2004, Method for Qualitative Identification of Asbestos in Bulk Samples.
- Contaminated Land Management Act 1997.
- Department of Mineral Resources 1966, 1:1000,000 Geological Series Sheet 9130 (Edition 3).
- Friebel & Nadebaum, 2011, CRC CARE Technical Report No. 10: Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater, Part 2: Application Document.
- *Port Stephens Local Environmental Plan 2013*.
- Protection of the Environment Operations Act 1997.
- NEPC (2013), *National Environment Protection (Assessment of Site Contamination) Measure 1999* (as amended 2013).
- NSW DEC 2006, Guidelines for the NSW Site Auditor Scheme (2nd Edition).
- NSW EPA 2022, Sampling Design Guidelines.
- NSW EPA 1997, Guidelines for Consultants Reporting on Contaminated Sites.
- NSW EPA (2015), Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997.
- NSW EPA 2014, Waste Classification Guidelines Part 1: Classifying Waste.
- NSW EPA Contaminated land record database <http://www.epa.nsw.gov.au/prclmapp/searchregister.aspx>
- NSW EPA Protection of the Environment Operations Act 1997 public register <http://www.epa.nsw.gov.au/prpoeoapp/>
- NSW Government Water Information website, http://realtimedata.water.nsw.gov.au/water.stm
- WA DoH 2009, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia.

APPENDIX A

SITE FIGURES

Hunter River High School TESA

Figure 1

Site Locality Plan

Legend

🟥 Property boundary

0 50 100 m

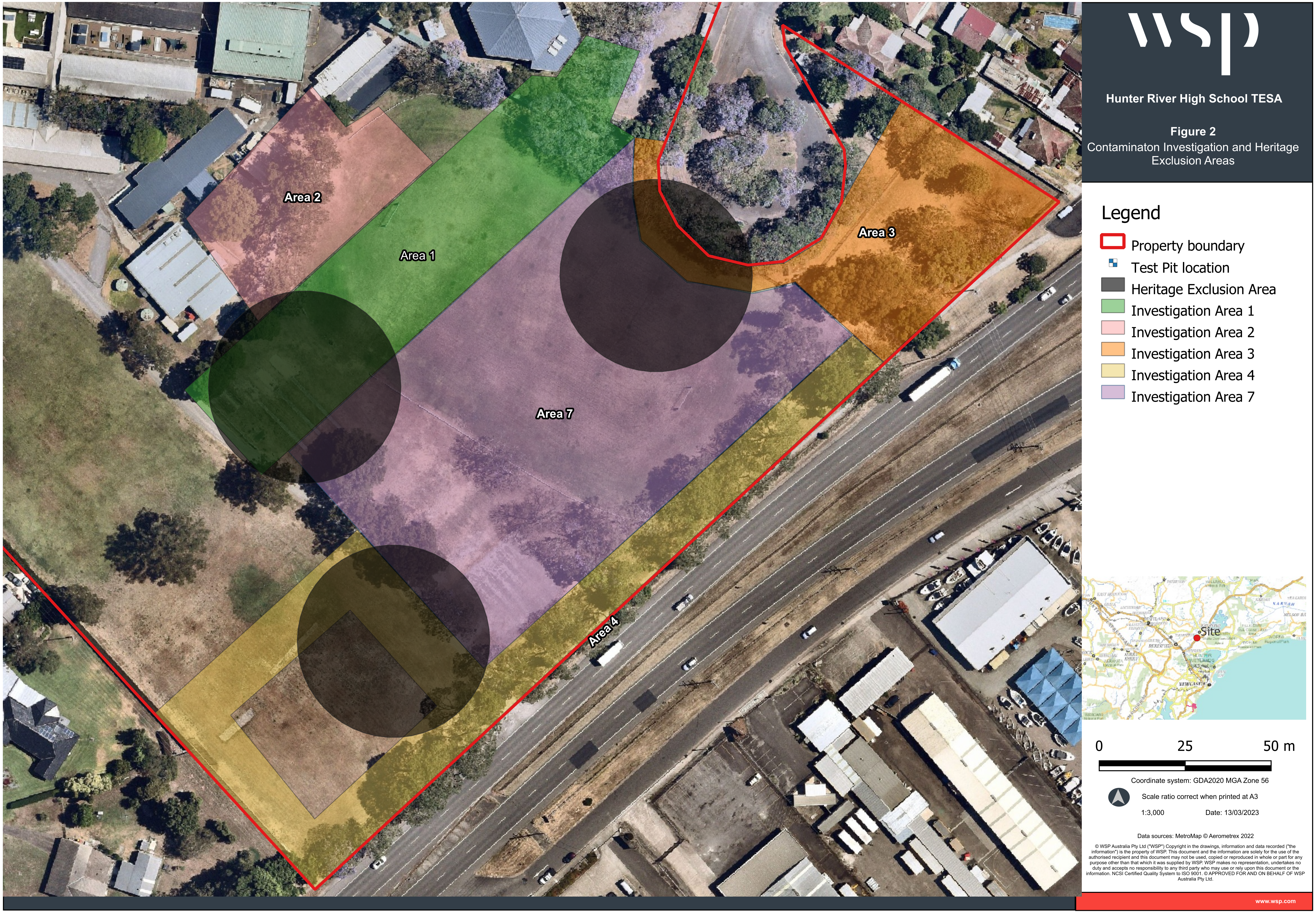
Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000

Date: 06/10/2022

Data sources: MetroMap © Aerometrex 2022



Hunter River High School TESA

Figure 2
Contaminaton Investigation and Heritage Exclusion Areas

Legend

- 🟥 Property boundary
- ▨ Test Pit location
- ■ Heritage Exclusion Area
- 🟩 Investigation Area 1
- ■ Investigation Area 2
- 🟧 Investigation Area 3
- 🟨 Investigation Area 4
- 🟪 Investigation Area 7

0 25 50 m

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000 Date: 13/03/2023

Data sources: MetroMap © Aerometrex 2022

Hunter River High School TESA

Figure 3

Investigation Area Test Pit Locations

Legend

- 🟥 Property boundary
- ▪ Test Pit location
- 🟩 Investigation Area 1
- 🟥 Investigation Area 2
- 🟧 Investigation Area 3
- 🟨 Investigation Area 4
- 🟪 Investigation Area 7

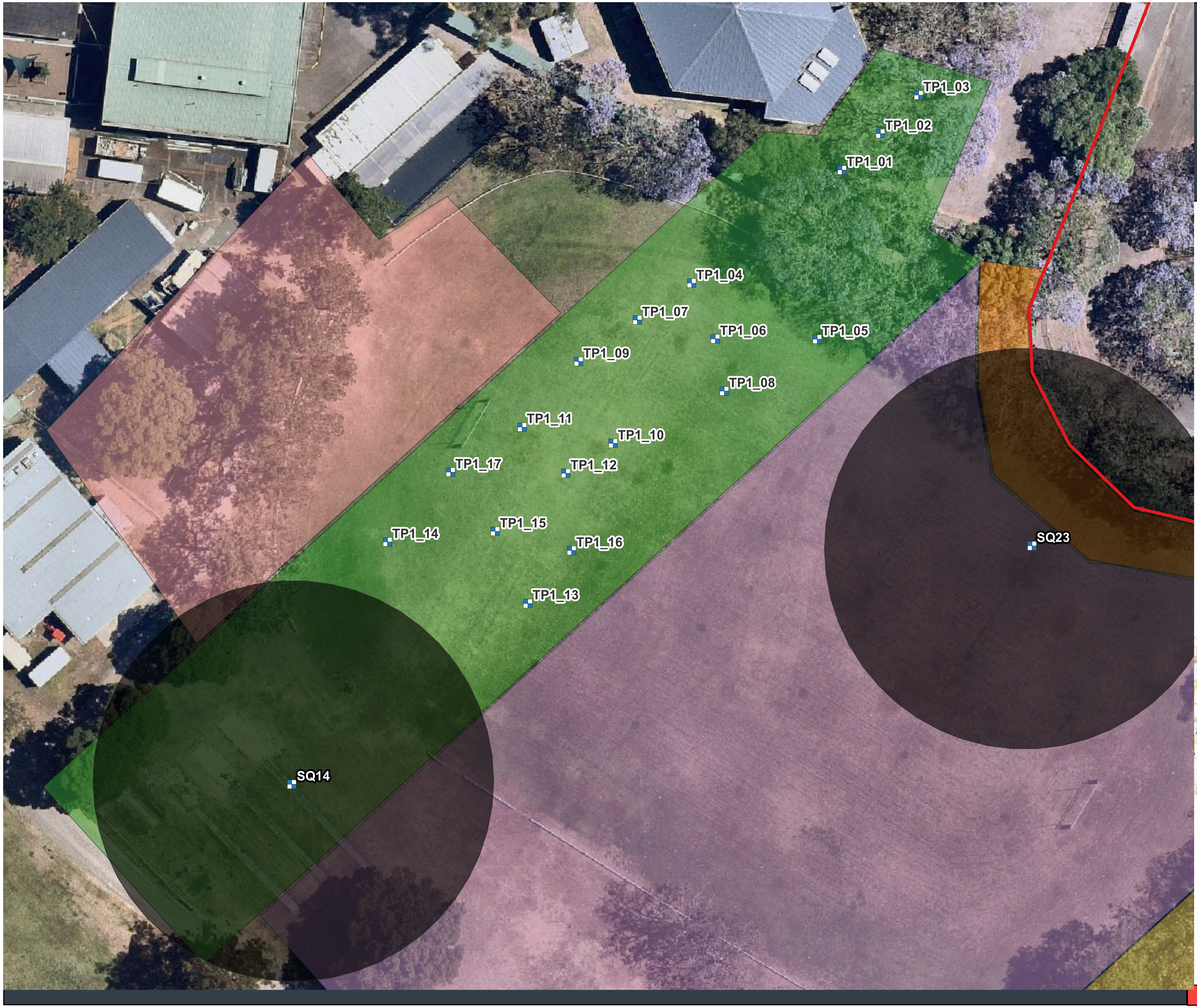
0 25 50 m

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000 Date: 06/10/2022

Data sources: MetroMap © Aerometrex 2022



Hunter River High School TESA

Figure 4

Investigation Area Test Pit Locations

Legend

▭	Property boundary
▪	Test Pit location
🟩	Investigation Area 1
■	Heritage Exclusion Area

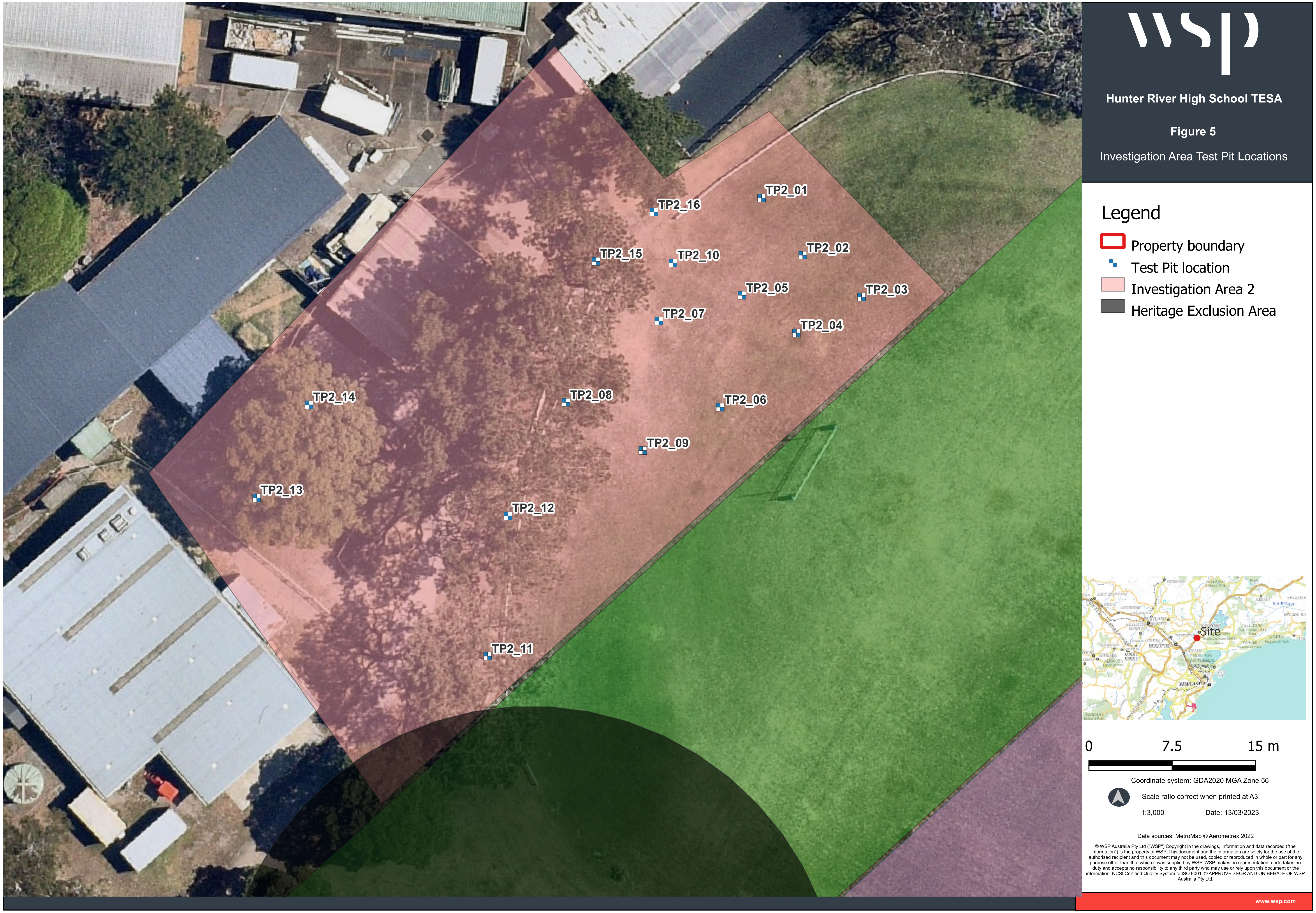
0 10 20 m

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000 Date: 13/03/2023

Data sources: MetroMap © Aerometrex 2022



Hunter River High School TESA

Figure 5

Investigation Area Test Pit Locations

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000

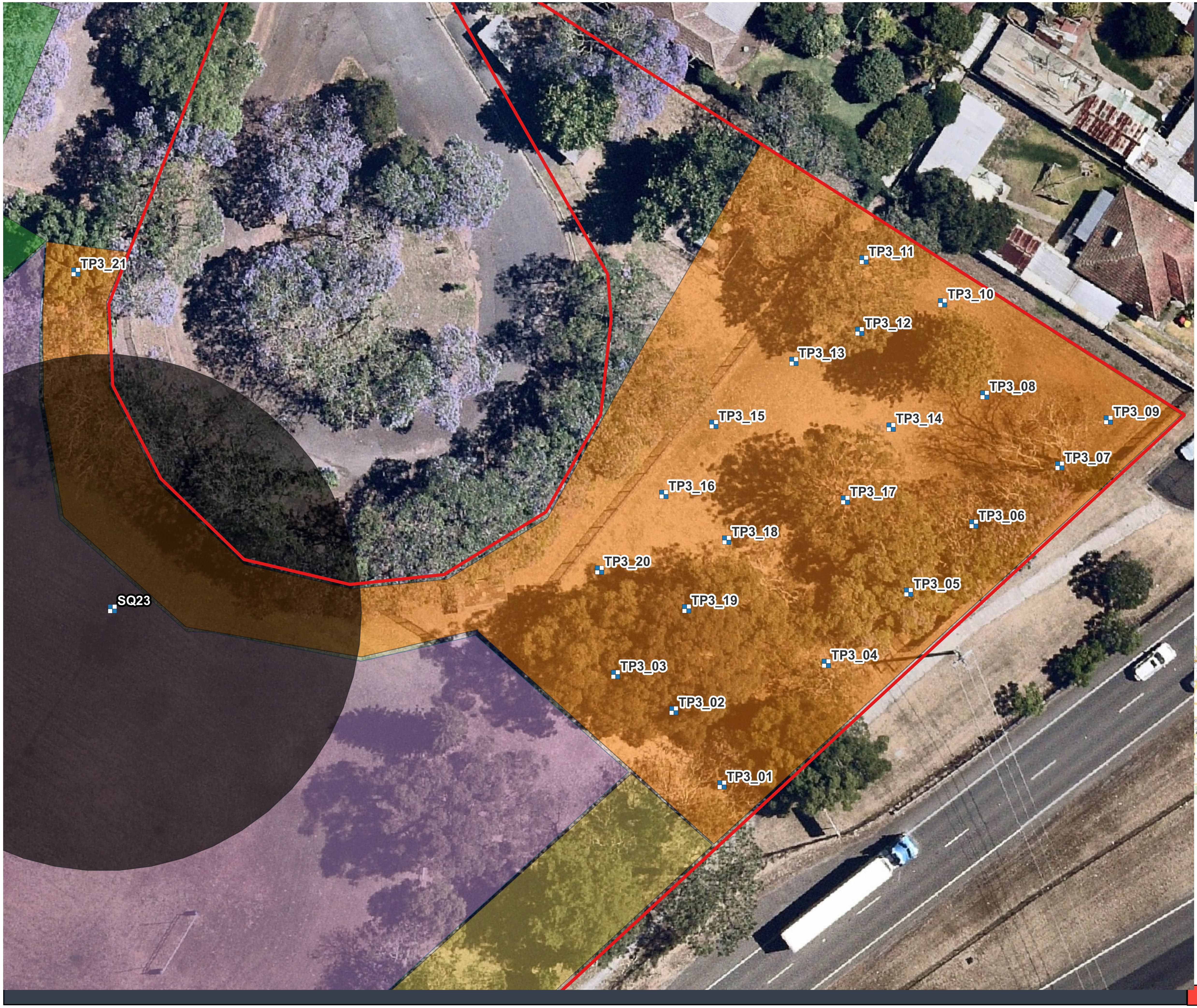
Date: 13/03/2023

Data sources: MetroMap © Aerometrex 2022

Hunter River High School TESA

Figure 6

Investigation Area Test Pit Locations



Legend

🟥 Property boundary
▪ Test Pit location
🟧 Investigation Area 3
⬛ Heritage Exclusion Area

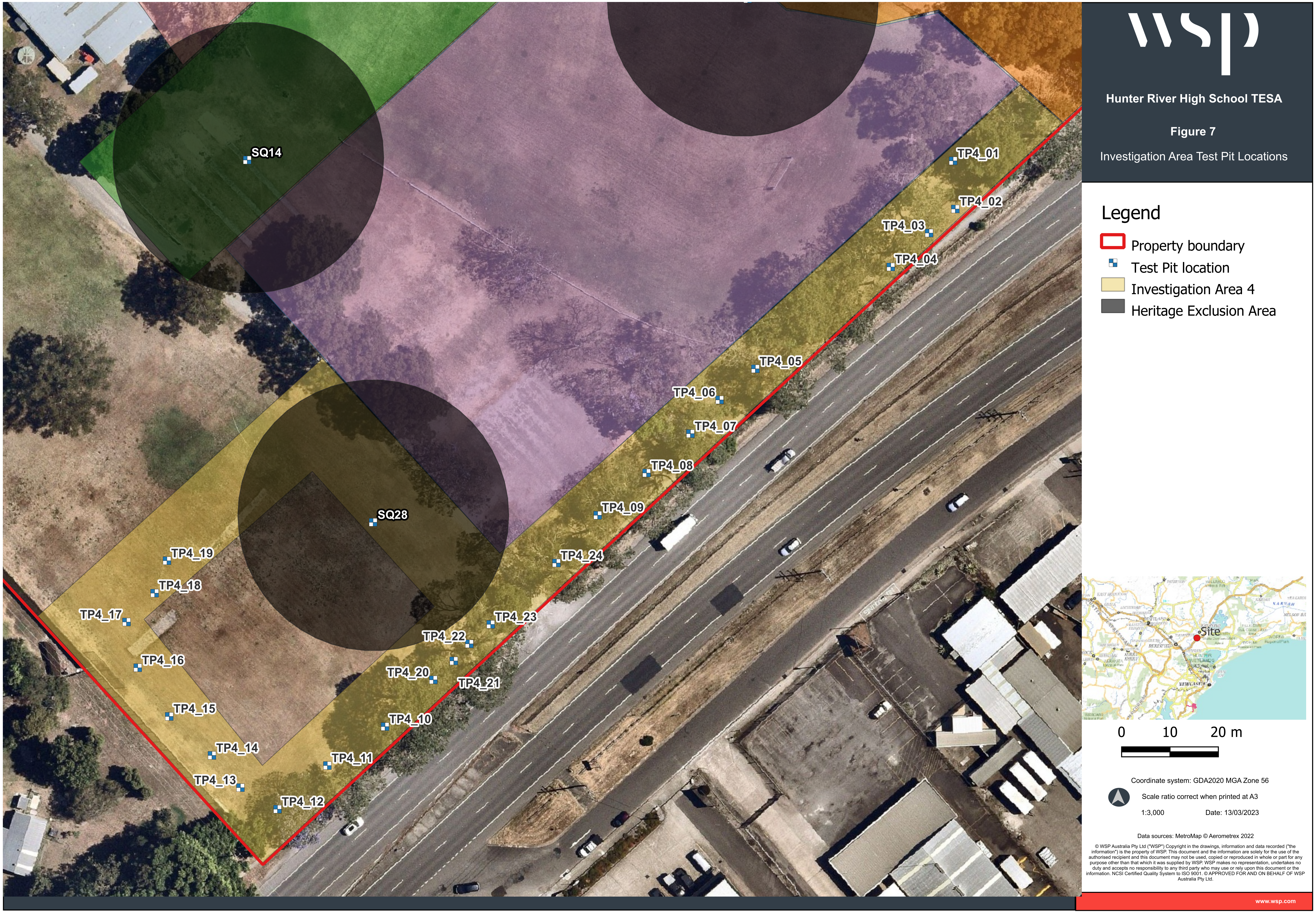
0 10 20 m

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000 Date: 13/03/2022

Data sources: MetroMap © Aerometrex 2022



wsp

Hunter River High School TESA

Figure 7

Investigation Area Test Pit Locations

Legend

🟥 Property boundary

▪ Test Pit location

🟨 Investigation Area 4

⬛ Heritage Exclusion Area

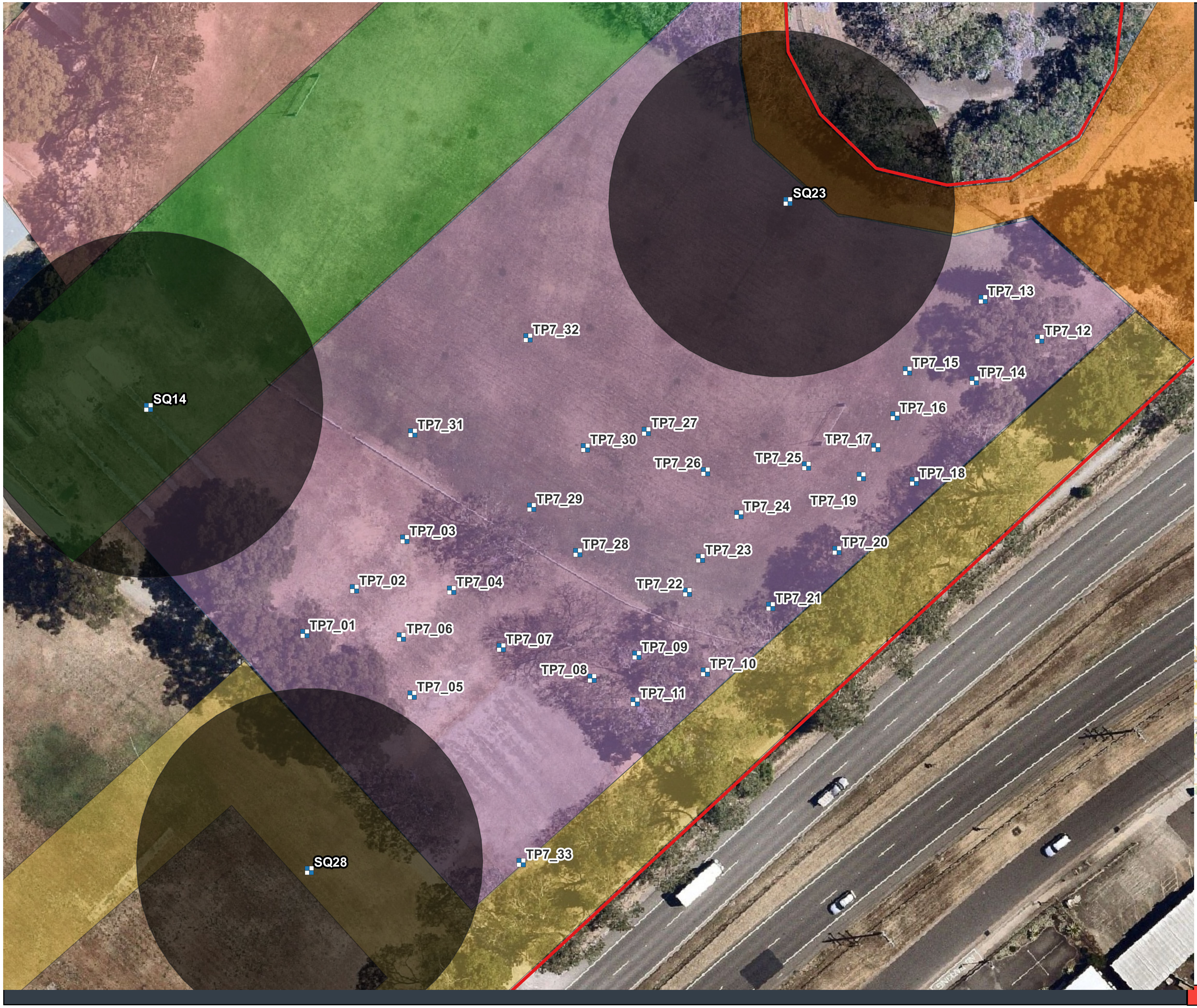
Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000

Date: 13/03/2023

Data sources: MetroMap © Aerometrex 2022



Hunter River High School TESA

Figure 8

Investigation Area Test Pit Locations

Legend

- 🟥 Property boundary
- ▪ Test Pit location
- 🟪 Investigation Area 7
- ⬛ Heritage Exclusion Area

0 10 20 m

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000 Date: 13/03/2023

Data sources: MetroMap © Aerometrex 2022

WSP

Hunter River High School TESA

Figure 4

Asbestos identified location

Legend

🟥 Property boundary

● Asbestos location

Coordinate system: GDA2020 MGA Zone 56

Scale ratio correct when printed at A3

1:3,000

Date: 13/02/2023

Data sources: MetroMap © Aerometrex 2022

APPENDIX B

ANALYTICAL RESULTS TABLES

APPENDIX B-1
SITE SUITABILITY ASSESSMENT RESULTS TABLES

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Metals							
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	2	5	5	0.1	2	5
NEPM 2013 Table 1A(1) HILs Rec C Soil				300	90	300	17,000	600	80	1,200	30,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m											
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m											
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)											
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space				100		190	35	1,100		6	140
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil											
Project ID		Field ID	Matrix								
PS135419	Area 1	TP1_01_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP1_02_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP1_03_0.1	Soil	3.0	<0.4	9.2	6.0	8.0	<0.1	6.1	25
		TP1_03_0.2	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	9.8
		TP1_04_0.1	Soil	<2	<0.4	<5	5.7	9.3	<0.1	<5	39
		TP1_06_0.1	Soil	3.2	<0.4	15	13	11	<0.1	12	58
		TP1_07_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP1_08_0.1	Soil	3.7	<0.4	12	10	8.0	<0.1	11	49
		TP1_09_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP1_10_0.1	Soil	3.3	<0.4	13	13	13	<0.1	13	55
		TP1_11_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	7.2
		TP1_13_0.5	Soil	6.4	<0.4	5.8	<5	<5	<0.1	<5	<5
		TP1_14_0.1	Soil	4.6	<0.4	16	16	14	<0.1	13	92
		TP1_15_0.5	Soil	2.2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP1_16_0.1	Soil	4.4	<0.4	16	18	15	<0.1	14	82
		TP1_17_0.5	Soil	3.6	<0.4	<5	<5	<5	<0.1	<5	<5
	Area 2	TP2_01_0.1	Soil	2.2	<0.4	8.3	9.2	12	<0.1	7.9	43
		TP2_03_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP2_05_0.1	Soil	<2	<0.4	7.4	11	9.2	<0.1	6.7	47
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP2_09_0.1	Soil	2.6	<0.4	5.3	6.6	14	<0.1	<5	38
		TP2_10_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP2_11_0.1	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	19
		TP2_13_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP2_14_0.1	Soil	<2	<0.4	<5	6.7	11	<0.1	<5	51
		TP2_15_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
	Area 3	TP3_01_0.1	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	9.1
		TP3_02_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	8.1
		TP3_04_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP3_05_0.1	Soil	<2	<0.4	<5	<5	11	<0.1	<5	29
		TP3_07_0.1	Soil	<2	<0.4	<5	<5	32	<0.1	<5	87
		TP3_08_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP3_09_0.1	Soil	<2	<0.4	<5	<5	24	<0.1	<5	26
		TP3_10_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP3_11_0.1	Soil	<2	<0.4	<5	<5	18	<0.1	<5	16
		TP3_13_0.1	Soil	8.5	<0.4	5.6	<5	13	<0.1	<5	22
		TP3_14_0.5	Soil	3.2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP3_15_0.1	Soil	4.2	<0.4	<5	<5	9.5	<0.1	<5	20
		TP3_16_0.5	Soil	3.1	<0.4	<5	<5	5.1	<0.1	<5	<5
		TP3_17_0.1	Soil	<2	<0.4	<5	<5	17	0.1	<5	20
		TP3_18_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	5.3
		TP3_19_0.1	Soil	<2	<0.4	<5	<5	12	<0.1	<5	23
		TP3_20_0.5	Soil	4.1	<0.4	<5	<5	<5	<0.1	<5	<5
		TP3_21_0.1	Soil	2.9	<0.4	6.1	15	53	<0.1	6.4	97
	Area 4	TP4_01_0.1	Soil	<2	<0.4	<5	6.0	18	<0.1	<5	29
		TP4_03_0.1	Soil	2.7	<0.4	8.8	9.3	23	<0.1	6.4	34
		TP4_04_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_05_0.1	Soil	9.2	<0.4	6.5	<5	14	<0.1	<5	23
		TP4_06_0.5	Soil	9.5	<0.4	6.6	<5	<5	<0.1	<5	<5
		TP4_08_0.5	Soil	6.2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_09_0.5	Soil	3.8	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_10_0.1	Soil	3.2	<0.4	<5	<5	7.7	<0.1	<5	19
		TP4_11_0.1	Soil	5.9	<0.4	6.4	<5	6.1	<0.1	<5	12
		TP4_11_0.5	Soil	7.6	<0.4	8.5	<5	<5	<0.1	<5	<5
		TP4_12_0.1	Soil	6.5	<0.4	9.1	6.5	19	<0.1	<5	41
		TP4_13_0.5	Soil	6.6	<0.4	7.2	<5	<5	<0.1	<5	<5
		TP4_14_0.1	Soil	<2	<0.4	<5	<5	11	<0.1	<5	12
		TP4_15_0.5	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_16_0.1	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_17_0.1	Soil	3.1	<0.4	<5	<5	5.4	<0.1	<5	14
		TP4_19_0.1	Soil	<2	<0.4	<5	<5	8.0	<0.1	<5	28
		TP4_20_0.5	Soil	3.2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_21_0.1	Soil	3.2	<0.4	6.7	6.9	19	<0.1	6.4	34
		TP4_22_0.5	Soil	3.4	<0.4	<5	<5	<5	<0.1	<5	<5
		TP4_23_0.1	Soil	2.8	<0.4	<5	<5	20	<0.1	<5	53
		TP4_24_0.5	Soil	4.2	<0.4	<5	<5	<5	<0.1	<5	<5
	Area 7	TP7_01_0.1	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	8.9
		TP7_02_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_04_0.1	Soil	2.3	<0.4	6.4	5.9	12	<0.1	5.5	25
		TP7_06_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_07_0.1	Soil	24	<0.4	<5	<5	13	<0.1	<5	21
		TP7_08_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_10_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_12_0.1	Soil	4.6	<0.4	16	14	20	<0.1	11	64
		TP7_13_0.1	Soil	2.7	<0.4	6.8	8.3	13	<0.1	<5	41
		TP7_15_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_16_0.1	Soil	3.1	<0.4	13	9.7	15	<0.1	9.2	55
		TP7_18_0.3	Soil	<2	<0.4	<5	5.8	6.7	<0.1	<5	17
		TP7_20_0.1	Soil	2.9	<0.4	5.7	7.8	13	0.1	<5	24
		TP7_21_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	7.0
		TP7_23_0.1	Soil	2.9	<0.4	9.2	12	12	<0.1	6.8	53
		TP7_24_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_26_0.1	Soil	2.2	<0.4	6.1	8.6	10	<0.1	<5	60
		TP7_27_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_28_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_29_0.1	Soil	5.0	<0.4	12	16	11	<0.1	8.6	73
		TP7_30_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5
		TP7_32_0.3	Soil	<2	<0.4	<5	<5	<5	<0.1	<5	<5

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				TRH						
				C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	10	50	50	100	100	50
NEPM 2013 Table 1A(1) HILs Rec C Soil										
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m					45		110			
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m					NL		NL			
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)					82,000	62,000		85,000	120,000	
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space										
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					180	120		300	2,800	
Project ID		**Field ID**	**Matrix**							
PS135419	**Area 1**	**TP1_01_0.5**	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_02_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_03_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_03_0.2	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_04_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_06_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_07_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_08_0.1	**Soil**	<20	<20	<50	<50	120	<100	120
		TP1_09_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_10_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_11_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_13_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_14_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_15_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_16_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP1_17_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
	Area 2	**TP2_01_0.1**	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_03_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_05_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_05_0.5	**Soil**	-	-	-	-	-	-	-
		TP2_07_0.1	**Soil**	-	-	-	-	-	-	-
		TP2_07_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_09_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_10_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_11_0.1	**Soil**	<20	<20	<50	<50	160	<100	160
		TP2_13_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_14_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP2_15_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
	Area 3	**TP3_01_0.1**	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_02_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_04_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_05_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_07_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_08_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_09_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_10_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_11_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_13_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_14_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_15_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_16_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_17_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_18_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_19_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_20_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP3_21_0.1	**Soil**	<20	<20	<50	<50	740	250	990
	Area 4	**TP4_01_0.1**	**Soil**	<20	<20	<50	<50	260	160	420
		TP4_03_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_04_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_05_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_06_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_08_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_09_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_10_0.1	**Soil**	<20	<20	<50	<50	230	<100	230
		TP4_11_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_11_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_12_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_13_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_14_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_15_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_16_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_17_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_19_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_20_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_21_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_22_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_23_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP4_24_0.5	**Soil**	<20	<20	<50	<50	<100	<100	<100
	Area 7	**TP7_01_0.1**	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_02_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_04_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_06_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_07_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_08_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_10_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_12_0.1	**Soil**	<20	<20	<50	<50	130	<100	130
		TP7_13_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_15_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_16_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_18_0.3	**Soil**	<20	<20	<50	<50	200	<100	200
		TP7_20_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_21_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_23_0.1	**Soil**	<20	<20	<50	<50	110	<100	110
		TP7_24_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_26_0.1	**Soil**	<20	<20	<50	<50	120	<100	120
		TP7_27_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_28_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_29_0.1	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_30_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100
		TP7_32_0.3	**Soil**	<20	<20	<50	<50	<100	<100	<100

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				TPH					BTEX				
				C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene Total
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	20	50	50	50	0.5	0.1	0.1	0.1	0.3
NEPM 2013 Table 1A(1) HILs Rec C Soil													
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m										0.5	160	55	40
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m										NL	NL	NL	NL
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)										1,100	120,000	85,000	130,000
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil						300		2,800		50	85	70	105
Project ID		Field ID	Matrix										
PS135419	Area 1	TP1_01_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_02_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_03_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_03_0.2	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_04_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_06_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_07_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_08_0.1	Soil	<20	<20	84	53	137	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_09_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_10_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_11_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_13_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_14_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_15_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_16_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP1_17_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
	Area 2	TP2_01_0.1	Soil	<20	<20	58	<50	58	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_03_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_05_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_09_0.1	Soil	<20	<20	52	<50	52	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_10_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_11_0.1	Soil	<20	<20	130	59	189	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_13_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_14_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP2_15_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
	Area 3	TP3_01_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_02_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_04_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_05_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_07_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_08_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_09_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_10_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_11_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_13_0.1	Soil	<20	28	68	<50	96	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_14_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_15_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_16_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_17_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_18_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_19_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_20_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP3_21_0.1	Soil	<20	<20	500	340	840	<0.5	<0.1	<0.1	<0.1	<0.3
	Area 4	TP4_01_0.1	Soil	<20	<20	190	110	300	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_03_0.1	Soil	<20	<20	<50	59	59	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_04_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_05_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_06_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_08_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_09_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_10_0.1	Soil	<20	<20	200	55	255	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_11_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_11_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_12_0.1	Soil	<20	<20	<50	54	54	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_13_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_14_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_15_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_16_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_17_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_19_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_20_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_21_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_22_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_23_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP4_24_0.5	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
	Area 7	TP7_01_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_02_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_04_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_06_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_07_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_08_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_10_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_12_0.1	Soil	<20	<20	78	74	152	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_13_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_15_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_16_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_18_0.3	Soil	<20	46	170	68	284	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_20_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_21_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_23_0.1	Soil	<20	<20	57	71	128	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_24_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_26_0.1	Soil	<20	<20	65	73	138	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_27_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_28_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_29_0.1	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_30_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3
		TP7_32_0.3	Soil	<20	<20	<50	<50	<50	<0.5	<0.1	<0.1	<0.1	<0.3

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				PAH									
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(a) pyrene (ASLP)	Benzo(b+j) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.001	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Rec C Soil													
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)													
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								0.7					
Project ID		Field ID	Matrix										
PS135419	Area 1	TP1_01_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_02_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_03_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_03_0.2	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_04_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	0.5	<0.5	0.5	<0.5
		TP1_06_0.1	Soil	<0.5	<0.5	<0.5	<0.5	0.7	<0.001	0.5	0.5	0.5	0.5
		TP1_07_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_08_0.1	Soil	<0.5	<0.5	0.7	1.5	2.1	<0.001	1.5	1.7	1.6	1.7
		TP1_09_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_10_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_11_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_14_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_15_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_16_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP1_17_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Area 2	TP2_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_03_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_05_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_09_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	0.7	<0.5	<0.5	<0.5
		TP2_10_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_11_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	0.6
		TP2_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_14_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP2_15_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Area 3	TP3_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_02_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_04_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_05_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_07_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_08_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_09_0.1	Soil	<0.5	<0.5	<0.5	<0.5	0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_10_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_11_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_13_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_14_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_15_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_16_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_17_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_18_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_19_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_20_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP3_21_0.1	Soil	<0.5	<0.5	1.7	15	22	0.002	30	20	31	29
	Area 4	TP4_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_03_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_04_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_05_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_06_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_08_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_09_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_10_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_11_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_11_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_12_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_14_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_15_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_16_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_17_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_19_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_20_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_21_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_22_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_23_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP4_24_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Area 7	TP7_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_02_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_04_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_06_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_07_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_08_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_10_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_12_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_13_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_15_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_16_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_18_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_20_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_21_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_23_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_24_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_26_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_27_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_28_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_29_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_30_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
		TP7_32_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				PAH									
				Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	PAHs (total ASLP)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.001
NEPM 2013 Table 1A(1) HILs Rec C Soil											3	300	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m								3					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m								NL					
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)								29,000					
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space								170					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					50		85		70				
Project ID		Field ID	Matrix										
PS135419	Area 1	TP1_01_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_02_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_03_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_03_0.2	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_04_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	-
		TP1_06_0.1	Soil	<0.5	1.7	<0.5	<0.5	<0.5	0.8	1.7	0.8	6.9	<0.001
		TP1_07_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_08_0.1	Soil	<0.5	5.5	<0.5	1.3	<0.5	2.6	5.5	2.7	26	<0.001
		TP1_09_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_10_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_11_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_14_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_15_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_16_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP1_17_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Area 2	TP2_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_03_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_05_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_09_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	-
		TP2_10_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_11_0.1	Soil	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	2.4	-
		TP2_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_14_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP2_15_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Area 3	TP3_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_02_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_04_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_05_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_07_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_08_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_09_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	-
		TP3_10_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_11_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_13_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_14_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_15_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_16_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_17_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_18_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_19_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_20_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP3_21_0.1	Soil	5.6	44	<0.5	18	<0.5	3.4	43	37	260	0.032
	Area 4	TP4_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_03_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_04_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_05_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_06_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_08_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_09_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_10_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_11_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_11_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_12_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_14_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_15_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_16_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_17_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_19_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_20_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_21_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_22_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_23_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP4_24_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Area 7	TP7_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_02_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_04_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_06_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_07_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_08_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_10_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_12_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_13_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_15_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_16_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_18_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_20_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_21_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_23_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_24_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_26_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	0.9	-
		TP7_27_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_28_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_29_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_30_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
		TP7_32_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Halogenated	Organochlorine Pesticides							
				Hexachlorobenzene	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	d-BHC	DDD
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil				10				10		70		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m												
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m												
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)												
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil				105						0.7		
Project ID		Field ID	Matrix									
PS135419	Area 1	TP1_01_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP1_02_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP1_03_0.2	Soil	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP1_06_0.1	Soil	<0.05	<0.05	<0.05	<0.05	0.28	<0.05	<0.1	<0.05	<0.05
		TP1_07_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP1_10_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP1_14_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP1_16_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
	Area 2	TP2_01_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP2_03_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP2_10_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP2_13_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP2_15_0.5	Soil	-	-	-	-	-	-	-	-	-
	Area 3	TP3_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP3_02_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP3_05_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP3_09_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP3_11_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP3_15_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP3_16_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP3_19_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	Soil	-	-	-	-	-	-	-	-	-
	Area 4	TP4_01_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP4_03_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_05_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_08_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_10_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_11_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP4_13_0.5	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP4_14_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_17_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_19_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	Soil	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_22_0.5	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP4_23_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	Soil	-	-	-	-	-	-	-	-	-
	Area 7	TP7_01_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP7_02_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP7_06_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP7_13_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP7_16_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP7_18_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05
		TP7_21_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP7_26_0.1	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP7_27_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	Soil	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
		TP7_29_0.1	Soil	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	Soil	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	Soil	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Organochlorine Pesticides									
				DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil					400		340				20		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)													
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space				180									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil													
Project ID		**Field ID**	**Matrix**										
PS135419	**Area 1**	**TP1_01_0.5**	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP1_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP1_03_0.2	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_06_0.1	**Soil**	<0.05	<0.05	0.28	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP1_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP1_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP1_16_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Area 2	**TP2_01_0.1**	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP2_03_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP2_05_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP2_10_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP2_13_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP2_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 3	**TP3_01_0.1**	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP3_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP3_09_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP3_11_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP3_15_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP3_16_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 4	**TP4_01_0.1**	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_03_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_08_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_13_0.5	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_17_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_22_0.5	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP4_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 7	**TP7_01_0.1**	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP7_02_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_06_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP7_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP7_16_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP7_18_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		TP7_21_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_26_0.1	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_27_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	**Soil**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_29_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	**Soil**	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Organochlorine Pesticides					Organophosphorous Pesticides			
				g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Tokuthion	Azinophos methyl	Bolstar (Sulprofos)	Bromophos-ethyl
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.5	0.2	0.05	0.2	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil					10		400	30				
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m												
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m												
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)												
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space												
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil												
Project ID		**Field ID**	**Matrix**									
PS135419	**Area 1**	**TP1_01_0.5**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP1_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP1_03_0.2	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP1_06_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP1_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP1_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP1_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP1_16_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
	Area 2	**TP2_01_0.1**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP2_03_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP2_05_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP2_10_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP2_13_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP2_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-
	Area 3	**TP3_01_0.1**	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP3_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP3_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP3_09_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP3_11_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP3_15_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP3_16_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP3_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	**Soil**	-	-	-	-	-	-	-	-	-
	Area 4	**TP4_01_0.1**	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP4_03_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_08_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP4_13_0.5	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP4_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_17_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_22_0.5	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP4_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	**Soil**	-	-	-	-	-	-	-	-	-
	Area 7	**TP7_01_0.1**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP7_02_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP7_06_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP7_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP7_16_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP7_18_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-
		TP7_21_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP7_26_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP7_27_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	**Soil**	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	-
		TP7_29_0.1	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	**Soil**	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	<0.2	-

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Organophosphorous Pesticides									
				Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	2	0.2	0.2	0.05	0.05	0.05
NEPM 2013 Table 1A(1) HILs Rec C Soil						250							
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)													
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil													
Project ID		Field ID	Matrix										
PS135419	Area 1	TP1_01_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_02_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_03_0.2	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_06_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_07_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_10_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_14_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_16_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
	Area 2	TP2_01_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_03_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_10_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP2_13_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_15_0.5	Soil	-	-	-	-	-	-	-	-	-	-
	Area 3	TP3_01_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_02_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_05_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_09_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_11_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_15_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_16_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_19_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	Soil	-	-	-	-	-	-	-	-	-	-
	Area 4	TP4_01_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_03_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_05_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_08_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_10_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_11_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_13_0.5	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_14_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_17_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_19_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_22_0.5	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_23_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	Soil	-	-	-	-	-	-	-	-	-	-
	Area 7	TP7_01_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_02_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_06_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_13_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_16_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_18_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_21_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_26_0.1	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_27_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	Soil	-	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_29_0.1	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	Soil	-	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	Soil	-	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Organophosphorous Pesticides									
				Disulfoton	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	EPN	Malathion	Merphos	Methyl parathion
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.2	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.2
NEPM 2013 Table 1A(1) HILs Rec C Soil													
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)													
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil													
Project ID		**Field ID**	**Matrix**										
PS135419	**Area 1**	**TP1_01_0.5**	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_03_0.2	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_06_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_16_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Area 2	**TP2_01_0.1**	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_03_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_05_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_10_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP2_13_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 3	**TP3_01_0.1**	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_09_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_11_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_15_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_16_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 4	**TP4_01_0.1**	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_03_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_08_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_13_0.5	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_17_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_22_0.5	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 7	**TP7_01_0.1**	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_02_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_06_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_16_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_18_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_21_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_26_0.1	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_27_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	**Soil**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_29_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	**Soil**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				Organophosphorous Pesticides										
				Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Prothiofos	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.2	0.2	0.2	2	0.2	0.05	0.2	0.2	0.2	0.2	0.2
NEPM 2013 Table 1A(1) HILs Rec C Soil														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m														
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m														
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)														
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil														
Project ID		Field ID	Matrix											
PS135419	Area 1	TP1_01_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_02_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_03_0.2	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_06_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_07_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP1_10_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_14_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP1_16_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
	Area 2	TP2_01_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_03_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_05_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_10_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP2_13_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP2_15_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
	Area 3	TP3_01_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_02_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_05_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_09_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_11_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_15_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP3_16_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP3_19_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
	Area 4	TP4_01_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_03_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_05_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_08_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_10_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_11_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_13_0.5	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP4_14_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_17_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_19_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_22_0.5	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP4_23_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	Soil	-	-	-	-	-	-	-	-	-	-	-
	Area 7	TP7_01_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_02_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_06_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_13_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_16_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_18_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2
		TP7_21_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_26_0.1	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_27_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	Soil	<0.5	<5	<0.5	<5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
		TP7_29_0.1	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	Soil	-	-	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	Soil	<0.2	<2	<0.2	<2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2

Table B1 - Hunter River High School - Targeted Environmental Site Assessment Soil Results

				PCBs								Pesticides	
				Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Parathion	Pirimiphos-methyl
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
NEPM 2013 Table 1A(1) HILs Rec C Soil											1		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m													
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)													
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil													
Project ID		**Field ID**	**Matrix**										
PS135419	**Area 1**	**TP1_01_0.5**	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP1_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_03_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP1_03_0.2	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_04_0.1	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP1_06_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP1_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_08_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_09_0.5	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP1_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_13_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP1_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_15_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP1_16_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP1_17_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
	Area 2	**TP2_01_0.1**	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP2_03_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_05_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP2_05_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_07_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_09_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP2_10_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_11_0.1	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP2_13_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP2_14_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP2_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 3	**TP3_01_0.1**	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP3_02_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_04_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP3_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_08_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP3_09_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_10_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP3_11_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_14_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP3_15_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP3_16_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_17_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_18_0.5	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP3_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP3_21_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 4	**TP4_01_0.1**	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP4_03_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_04_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_05_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_06_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_08_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_09_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_10_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_11_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_11_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_12_0.1	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP4_13_0.5	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP4_14_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_15_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_16_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_17_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_19_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_20_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_21_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_22_0.5	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP4_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP4_24_0.5	**Soil**	-	-	-	-	-	-	-	-	-	-
	Area 7	**TP7_01_0.1**	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP7_02_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_04_0.1	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP7_06_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_07_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_08_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_10_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_12_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP7_13_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_15_0.3	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP7_16_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP7_18_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_20_0.1	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
		TP7_21_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_23_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_24_0.3	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP7_26_0.1	**Soil**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5
		TP7_27_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_28_0.3	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5
		TP7_29_0.1	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_30_0.3	**Soil**	-	-	-	-	-	-	-	-	-	-
		TP7_32_0.3	**Soil**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2

APPENDIX B-2

WASTE CLASSIFICATION RESULTS TABLES

Table B2 - Hunter River High School - Targeted Environmental Site Assessment

					Metals								BTEX Compounds				PAHs			Organochorine Pesticides				OPP		PCBs	TPH	
					Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Benzene	Toluene	Ethylbenzene	Xylene Total	Benzo(a) pyrene	Benzo(a)pyrene (Leachability)	PAHs (Sum of total)	Endosulfan I	Endosulfan II	Endosulfan sulphate	OCPs Total (Scheduled Chemicals)	Chlorpyrifos	OPPs Total (moderately harmful pesticides)	PCBs (Sum of total)	C6-C9 Fraction	C10-C36 Fractio Sum
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					2	0.4	2	5	5	0.1	2	5		0.1	0.1	0.3	0.5		0.5	0.05	0.05	0.05	0.01	0.02	0.02	0.1	10	50
NSW 2014 General Solid Waste CT1 (No Leaching)					100	20	100	-	100	4	40	-	10	288	600	1,000	0.8	-	200	60	60	60	< 50	4	250	< 50	650	10,000
NSW 2014 General Solid Waste SCC1/TCLP1 (Leaching)					-	-	-	-	-	-	-	-	-	-	-	-	10	0.04	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)					400	80	400	-	400	16	160	-	40	1152	2400	4000	3.2	-	800	240	240	240	<50	16	1000	<50	2600	40,000
NSW 2014 Restricted Solid Waste SCC2/TCLP2 (Leaching)					-	-	-	-	-	-	-	-	-	-	-	-	23	0.016	-	-	-	-	-	-	-	-	-	-
Project ID		Field ID	Matrix Type	Date																								
PS135419	Area 1	TP1_01_0.5	Soil	20 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP1_02_0.5	Soil	20 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_03_0.1	Soil	20 Jan 2023	3.0	<0.4	9.2	6.0	8.0	<0.1	6.1	25	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP1_03_0.2	Soil	20 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	9.8	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_04_0.1	Soil	20 Jan 2023	<2	<0.4	<5	5.7	9.3	<0.1	<5	39	<0.1	<0.1	<0.1	<0.3	<0.5	-	1.0	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP1_06_0.1	Soil	20 Jan 2023	3.2	<0.4	15	13	11	<0.1	12	58	<0.1	<0.1	<0.1	<0.3	0.7	-	6.9	<0.05	<0.05	<0.05	0.28	<0.2	<0.2	<0.1	<20	<20
		TP1_07_0.5	Soil	20 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_08_0.1	Soil	20 Jan 2023	3.7	<0.4	12	10	8.0	<0.1	11	49	<0.1	<0.1	<0.1	<0.3	2.1	<0.001	26	-	-	-		-	-	-	<20	<20
		TP1_09_0.5	Soil	20 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP1_10_0.1	Soil	20 Jan 2023	3.3	<0.4	13	13	13	<0.1	13	55	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_11_0.5	Soil	20 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	7.2	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_13_0.5	Soil	23 Jan 2023	6.4	<0.4	5.8	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP1_14_0.1	Soil	23 Jan 2023	4.6	<0.4	16	16	14	<0.1	13	92	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_15_0.5	Soil	23 Jan 2023	2.2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP1_16_0.1	Soil	23 Jan 2023	4.4	<0.4	16	18	15	<0.1	14	82	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP1_17_0.5	Soil	23 Jan 2023	3.6	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
	Area 2	TP2_01_0.1	Soil	18 Jan 2023	2.2	<0.4	8.3	9.2	12	<0.1	7.9	43	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP2_03_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP2_05_0.1	Soil	18 Jan 2023	<2	<0.4	7.4	11	9.2	<0.1	6.7	47	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP2_05_0.5	Soil	18 Jan 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
		TP2_07_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP2_09_0.1	Soil	18 Jan 2023	2.6	<0.4	5.3	6.6	14	<0.1	<5	38	<0.1	<0.1	<0.1	<0.3	<0.5	-	0.7	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP2_10_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP2_11_0.1	Soil	25 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	19	<0.1	<0.1	<0.1	<0.3	<0.5	-	2.4	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP2_13_0.5	Soil	19 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP2_14_0.1	Soil	19 Jan 2023	<2	<0.4	<5	6.7	11	<0.1	<5	51	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP2_15_0.5	Soil	19 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
	Area 3	TP3_01_0.1	Soil	25 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	9.1	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP3_02_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	8.1	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_04_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP3_05_0.1	Soil	18 Jan 2023	<2	<0.4	<5	<5	11	<0.1	<5	29	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_07_0.1	Soil	18 Jan 2023	<2	<0.4	<5	<5	32	<0.1	<5	87	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_08_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP3_09_0.1	Soil	18 Jan 2023	<2	<0.4	<5	<5	24	<0.1	<5	26	<0.1	<0.1	<0.1	<0.3	0.5	-	0.5	-	-	-		-	-	-	<20	<20
		TP3_10_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP3_11_0.1	Soil	18 Jan 2023	<2	<0.4	<5	<5	18	<0.1	<5	16	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_13_0.1	Soil	18 Jan 2023	8.5	<0.4	5.6	<5	13	<0.1	<5	22	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_14_0.5	Soil	18 Jan 2023	3.2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP3_15_0.1	Soil	25 Jan 2023	4.2	<0.4	<5	<5	9.5	<0.1	<5	20	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP3_16_0.5	Soil	18 Jan 2023	3.1	<0.4	<5	<5	5.1	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_17_0.1	Soil	18 Jan 2023	<2	<0.4	<5	<5	17	0.1	<5	20	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_18_0.5	Soil	18 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	5.3	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP3_19_0.1	Soil	18 Jan 2023	<2	<0.4	<5	<5	12	<0.1	<5	23	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_20_0.5	Soil	18 Jan 2023	4.1	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP3_21_0.1	Soil	18 Jan 2023	2.9	<0.4	6.1	15	53	<0.1	6.4	97	<0.1	<0.1	<0.1	<0.3	22	0.001	260	-	-	-		-	-	-	<20	<20
	Area 4	TP4_01_0.1	Soil	19 Jan 2023	<2	<0.4	<5	6.0	18	<0.1	<5	29	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP4_03_0.1	Soil	19 Jan 2023	2.7	<0.4	8.8	9.3	23	<0.1	6.4	34	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_04_0.5	Soil	19 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_05_0.1	Soil	19 Jan 2023	9.2	<0.4	6.5	<5	14	<0.1	<5	23	<0.1	<0.1	<0.1	<0.3	-	-	-	-	-	-		-	-	-	<20	<20
		TP4_06_0.5	Soil	19 Jan 2023	9.5	<0.4	6.6	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_08_0.5	Soil	19 Jan 2023	6.2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_09_0.5	Soil	19 Jan 2023	3.8	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_10_0.1	Soil	25 Jan 2023	3.2	<0.4	<5	<5	7.7	<0.1	<5	19	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_11_0.1	Soil	19 Jan 2023	5.9	<0.4	6.4	<5	6.1	<0.1	<5	12	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_11_0.5	Soil	19 Jan 2023	7.6	<0.4	8.5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_12_0.1	Soil	19 Jan 2023	6.5	<0.4	9.1	6.5	19	<0.1	<5	41	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP4_13_0.5	Soil	19 Jan 2023	6.6	<0.4	7.2	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP4_14_0.1	Soil	19 Jan 2023	<2	<0.4	<5	<5	11	<0.1	<5	12	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_15_0.5	Soil	19 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_16_0.1	Soil	19 Jan 2023	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_17_0.1	Soil	25 Jan 2023	3.1	<0.4	<5	<5	5.4	<0.1	<5	14	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_19_0.1	Soil	19 Jan 2023	<2	<0.4	<5	<5	8.0	<0.1	<5	28	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_20_0.5	Soil	23 Jan 2023	3.2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_21_0.1	Soil	23 Jan 2023	3.2	<0.4	6.7	6.9	19	<0.1	6.4	34	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_22_0.5	Soil	23 Jan 2023	3.4	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP4_23_0.1	Soil	23 Jan 2023	2.8	<0.4	<5	<5	20	<0.1	<5	53	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP4_24_0.5	Soil	23 Jan 2023	4.2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20

Table B2 - Hunter River High School - Targeted Environmental Site Assessment

					Metals								BTEX Compounds				PAHs			Organochorine Pesticides				OPP		PCBs	TPH	
					Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Benzene	Toluene	Ethylbenzene	Xylene Total	Benzo(a) pyrene	Benzo(a)pyrene (Leachability)	PAHs (Sum of total)	Endosulfan I	Endosulfan II	Endosulfan sulphate	OCPs Total (Scheduled Chemicals)	Chlorpyrifos	OPPs Total (moderately harmful pesticides)	PCBs (Sum of total)	C6-C9 Fraction	C10-C36 Fractio Sum
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					2	0.4	2	5	5	0.1	2	5		0.1	0.1	0.3	0.5		0.5	0.05	0.05	0.05	0.01	0.02	0.02	0.1	10	50
NSW 2014 General Solid Waste CT1 (No Leaching)					100	20	100	-	100	4	40	-	10	288	600	1,000	0.8	-	200	60	60	60	< 50	4	250	< 50	650	10,000
NSW 2014 General Solid Waste SCC1/TCLP1 (Leaching)					-	-	-	-	-	-	-	-	-	-	-	-	10	0.04	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)					400	80	400	-	400	16	160	-	40	1152	2400	4000	3.2	-	800	240	240	240	<50	16	1000	<50	2600	40,000
NSW 2014 Restricted Solid Waste SCC2/TCLP2 (Leaching)					-	-	-	-	-	-	-	-	-	-	-	-	23	0.016	-	-	-	-	-	-	-	-	-	-
	Area 7	**TP7_01_0.1**	**Soil**	**25 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	8.9	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP7_02_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_04_0.1	**Soil**	**25 Jan 2023**	2.3	<0.4	6.4	5.9	12	<0.1	5.5	25	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP7_06_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_07_0.1	**Soil**	**20 Jan 2023**	24	<0.4	<5	<5	13	<0.1	<5	21	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_08_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_10_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_12_0.1	**Soil**	**20 Jan 2023**	4.6	<0.4	16	14	20	<0.1	11	64	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP7_13_0.1	**Soil**	**20 Jan 2023**	2.7	<0.4	6.8	8.3	13	<0.1	<5	41	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_15_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP7_16_0.1	**Soil**	**20 Jan 2023**	3.1	<0.4	13	9.7	15	<0.1	9.2	55	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP7_18_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	5.8	6.7	<0.1	<5	17	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_20_0.1	**Soil**	**20 Jan 2023**	2.9	<0.4	5.7	7.8	13	0.1	<5	24	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20
		TP7_21_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	7.0	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_23_0.1	**Soil**	**20 Jan 2023**	2.9	<0.4	9.2	12	12	<0.1	6.8	53	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_24_0.3	**Soil**	**20 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP7_26_0.1	**Soil**	**23 Jan 2023**	2.2	<0.4	6.1	8.6	10	<0.1	<5	60	<0.1	<0.1	<0.1	<0.3	<0.5	-	0.9	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<1	<20	<20
		TP7_27_0.3	**Soil**	**23 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_28_0.3	**Soil**	**23 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 1	<0.5	<0.5	<0.1	<20	<20
		TP7_29_0.1	**Soil**	**23 Jan 2023**	5.0	<0.4	12	16	11	<0.1	8.6	73	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_30_0.3	**Soil**	**23 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	-	-	-		-	-	-	<20	<20
		TP7_32_0.3	**Soil**	**23 Jan 2023**	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<0.1	<0.1	<0.1	<0.3	<0.5	-	<0.5	<0.05	<0.05	<0.05	< 0.1	<0.2	<0.2	<0.1	<20	<20

-	Not analysed
<	Under limit of reporting (LOR)

APPENDIX B-3
ASBESTOS IN SOIL SAMPLE RESULTS TABLES

Table B3 - Hunter River High School - Targeted Environmental Site Assessment Asbestos Results

				Asbestos	
				NEPM %w/w	Presence/ Absence
	EQL				
	NEPM 2013 Table 1A(1) HILs Rec C Soil			0.01	-
Area	Sample Number	Sample Description	Sample Location		
Area 1	229359	NEPM Soil	TP1_13_0.05	<0.01	Absent
	229360	NEPM Soil	TP1_13_0.5	<0.01	Absent
	229361	NEPM Soil	TP1_14_0.1	<0.01	Absent
	229362	NEPM Soil	TP1_14_0.5	<0.01	Absent
	229363	NEPM Soil	TP1_15_0.05	<0.01	Absent
	229364	NEPM Soil	TP1_15_0.5	<0.01	Absent
	229365	NEPM Soil	TP1_16_0.1	<0.01	Absent
	229366	NEPM Soil	TP1_16_0.5	<0.01	Absent
	229367	NEPM Soil	TP1_17_0.05	<0.01	Absent
	229368	NEPM Soil	TP1_17_0.5	<0.01	Absent
	229305	NEPM Soil	TP1_01_0.1	<0.01	Absent
	229306	NEPM Soil	TP1_02_0.1	<0.01	Absent
	229307	NEPM Soil	TP1_03_0.1	<0.01	Absent
	229308	NEPM Soil	TP1_04_0.1	<0.01	Absent
	229309	NEPM Soil	TP1_05_0.1	<0.01	Absent
	229310	NEPM Soil	TP1_06_0.1	<0.01	Absent
	229311	NEPM Soil	TP1_07_0.1	<0.01	Absent
	229312	NEPM Soil	TP1_08_0.1	<0.01	Absent
	229313	NEPM Soil	TP1_09_0.1	<0.01	Absent
	229314	NEPM Soil	TP1_10_0.1	<0.01	Absent
	229315	NEPM Soil	TP1_11_0.1	<0.01	Absent
	229357	NEPM Soil	TP1_12_0.1	<0.01	Absent
	229358	NEPM Soil	TP1_12_0.5	<0.01	Absent
Area 2	229268	NEPM Soil	TP2_01_0.1	<0.01	Absent
	229269	NEPM Soil	TP2_02_0.1	<0.01	Absent
	229270	NEPM Soil	TP2_03_0.1	<0.01	Absent
	229271	NEPM Soil	TP2_04_0.1	<0.01	Absent
	229273	NEPM Soil	TP2_05_0.1	<0.01	Absent
	229274	NEPM Soil	TP2_06_0.1	<0.01	Absent
	229275	NEPM Soil	TP2_07_0.1	<0.01	**Present**
	229276	NEPM Soil	TP2_08_0.1	<0.01	Absent
	229277	NEPM Soil	TP2_09_0.1	<0.01	Absent
	229278	NEPM Soil	TP2_10_0.1	<0.01	Absent
	229299	NEPM Soil	TP2_11_0.1	<0.01	Absent
	229300	NEPM Soil	TP2_12_0.1	<0.01	Absent
	229301	NEPM Soil	TP2_13_0.1	<0.01	Absent
	229302	NEPM Soil	TP2_14_0.1	<0.01	Absent
	229303	NEPM Soil	TP2_15_0.1	<0.01	Absent
	229304	NEPM Soil	TP2_16_0.1	<0.01	Absent
	229379	FC Fragment	TP2_14_0.3Frag01	-	**Present**
Area 3	229247	NEPM Soil	TP3_01_0.1	<0.01	Absent
	229249	NEPM Soil	TP3_02_0.1	<0.01	Absent
	229250	NEPM Soil	TP3_03_0.1	<0.01	Absent
	229251	NEPM Soil	TP3_04_0.1	<0.01	Absent
	229252	NEPM Soil	TP3_05_0.1	<0.01	Absent
	229253	NEPM Soil	TP3_06_0.1	<0.01	Absent
	229254	NEPM Soil	TP3_07_0.1	<0.01	Absent
	229255	NEPM Soil	TP3_08_0.1	<0.01	Absent
	229256	NEPM Soil	TP3_09_0.1	<0.01	Absent
	229257	NEPM Soil	TP3_10_0.1	<0.01	Absent
	229258	NEPM Soil	TP3_11_0.1	<0.01	Absent
	229259	NEPM Soil	TP3_12_0.1	<0.01	Absent
	229260	NEPM Soil	TP3_13_0.1	<0.01	Absent
	229261	NEPM Soil	TP3_14_0.1	<0.01	Absent
	229262	NEPM Soil	TP3_15_0.1	<0.01	Absent
	229263	NEPM Soil	TP3_16_0.1	<0.01	Absent
	229264	NEPM Soil	TP3_17_0.1	<0.01	Absent
	229265	NEPM Soil	TP3_18_0.1	<0.01	Absent
	229266	NEPM Soil	TP3_19_0.1	<0.01	Absent
	229267	NEPM Soil	TP3_20_0.1	<0.01	Absent
	229316	NEPM Soil	TP3_21_0.1	<0.01	Absent
Area 4	229279	NEPM Soil	TP4_01_0.1	<0.01	Absent
	229280	NEPM Soil	TP4_02_0.1	<0.01	Absent
	229281	NEPM Soil	TP4_03_0.1	<0.01	Absent
	229282	NEPM Soil	TP4_04_0.1	<0.01	Absent
	229283	NEPM Soil	TP4_05_0.1	<0.01	Absent
	229284	NEPM Soil	TP4_06_0.1	<0.01	Absent
	229285	NEPM Soil	TP4_07_0.1	<0.01	Absent
	229286	NEPM Soil	TP4_08_0.1	<0.01	Absent
	229287	NEPM Soil	TP4_09_0.1	<0.01	Absent
	229288	NEPM Soil	TP4_10_0.1	<0.01	Absent
	229290	NEPM Soil	TP4_11_0.1	<0.01	Absent
	229291	NEPM Soil	TP4_12_0.1	<0.01	Absent
	229292	NEPM Soil	TP4_13_0.1	<0.01	Absent
	229293	NEPM Soil	TP4_14_0.1	<0.01	Absent
	229294	NEPM Soil	TP4_15_0.1	<0.01	Absent
	229295	NEPM Soil	TP4_16_0.1	<0.01	Absent
	229296	NEPM Soil	TP4_17_0.1	<0.01	Absent
	229297	NEPM Soil	TP4_18_0.1	<0.01	Absent
	229298	NEPM Soil	TP4_19_0.1	<0.01	Absent
	229369	NEPM Soil	TP4_20_0.1	<0.01	Absent
	229370	NEPM Soil	TP4_20_0.5	<0.01	Absent
	229371	NEPM Soil	TP4_21_0.1	<0.01	Absent
	229372	NEPM Soil	TP4_21_0.5	<0.01	Absent
	229373	NEPM Soil	TP4_22_0.1	<0.01	Absent
	229374	NEPM Soil	TP4_22_0.5	<0.01	Absent
	229375	NEPM Soil	TP4_23_0.1	<0.01	Absent
	229376	NEPM Soil	TP4_23_0.5	<0.01	Absent
	229377	NEPM Soil	TP4_24_0.1	<0.01	Absent
	229378	NEPM Soil	TP4_24_0.5	<0.01	Absent
Area 7	229317	NEPM Soil	TP7_13_0.1	<0.01	Absent
	229318	NEPM Soil	TP7_01_0.1	<0.01	Absent
	229319	NEPM Soil	TP7_02_0.1	<0.01	Absent
	229320	NEPM Soil	TP7_03_0.1	<0.01	Absent
	229321	NEPM Soil	TP7_04_0.1	<0.01	Absent
	229322	NEPM Soil	TP7_05_0.1	<0.01	Absent
	229323	NEPM Soil	TP7_06_0.1	<0.01	Absent
	229324	NEPM Soil	TP7_07_0.1	<0.01	Absent
	229325	NEPM Soil	TP7_08_0.1	<0.01	Absent
	229326	NEPM Soil	TP7_09_0.1	<0.01	Absent
	229327	NEPM Soil	TP7_10_0.1	<0.01	Absent
	229328	NEPM Soil	TP7_11_0.1	<0.01	Absent
	229329	NEPM Soil	TP7_12_0.1	<0.01	Absent
	229330	NEPM Soil	TP7_14_0.1	<0.01	Absent
	229331	NEPM Soil	TP7_15_0.1	<0.01	Absent
	229332	NEPM Soil	TP7_16_0.1	<0.01	Absent
	229333	NEPM Soil	TP7_17_0.1	<0.01	Absent
	229334	NEPM Soil	TP7_18_0.05	<0.01	Absent
	229335	NEPM Soil	TP7_19_0.05	<0.01	Absent
	229336	NEPM Soil	TP7_20_0.05	<0.01	Absent
	229337	NEPM Soil	TP7_21_0.1	<0.01	Absent
	229338	NEPM Soil	TP7_22_0.1	<0.01	Absent
	229339	NEPM Soil	TP7_23_0.1	<0.01	Absent
	229340	NEPM Soil	TP7_24_0.1	<0.01	Absent
	229341	NEPM Soil	TP7_25_0.1	<0.01	Absent
	229342	NEPM Soil	TP7_26_0.05	<0.01	Absent
	229343	NEPM Soil	TP7_27_0.05	<0.01	Absent
	229344	NEPM Soil	TP7_27_0.3	<0.01	Absent
	229345	NEPM Soil	TP7_28_0.05	<0.01	Absent
	229346	NEPM Soil	TP7_28_0.3	<0.01	Absent
	229347	NEPM Soil	TP7_29_0.05	<0.01	Absent
	229348	NEPM Soil	TP7_29_0.3	<0.01	Absent
	229349	NEPM Soil	TP7_30_0.1	<0.01	Absent
	229350	NEPM Soil	TP7_30_0.3	<0.01	Absent
	229351	NEPM Soil	TP7_31_0.1	<0.01	Absent
	229352	NEPM Soil	TP7_31_0.3	<0.01	Absent
	229353	NEPM Soil	TP7_32_0.1	<0.01	Absent
	229354	NEPM Soil	TP7_32_0.3	<0.01	Absent
	229355	NEPM Soil	TP7_33_0.1	<0.01	Absent

APPENDIX B-4
PAH SOURCE CHARACTERISATION

				PAH																				
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(a) pyrene (ASLP)	Benzo(b+j) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d) pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a) pyrene TEQ calc (Zero)	PAHs (Sum of total)	PAHs (total ASLP)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/l
EQL				0.5	0.5	0.5	0.5	0.5	0.001	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.001
NEPM 2013 Table 1A(1) HILs Rec C Soil																					3	300	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand >=0m, <1m																		3					
NEPM 2013 Table 1A(3) Rec C Soil HSL for Vapour Intrusion, Sand >=0m, <1m																		NL					
CRC Care 2011 Table B4 Intrusive Maintenance Worker (Direct Contact)																		29,000					
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space																		170					
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil							0.7							50		85		70					
Project ID	**Area**	**Field ID**	**Matrix**																				
PS135419	**Area 1**	**TP1_08_0.1**	**Soil**	<0.5	<0.5	0.7	1.5	2.1	<0.001	1.5	1.7	1.6	1.7	<0.5	5.5	<0.5	1.3	<0.5	2.6	5.5	2.7	26	<0.001
	Area 3	**TP3_21_0.1**	**Soil**	<0.5	<0.5	1.7	15	22	0.002	30	20	31	29	5.6	44	<0.5	18	<0.5	3.4	43	37	260	0.032

Goodness of Fit		Method A		Method B
Very Good	>or =	0.95	< or =	1
Good	>or =	0.85	< or =	2
Reasonable	>or =	0.75	< or =	3
Poor	<	0.75	>	3

Method A - Correlation Coefficient																		
	Black Coal Tar 1	Black Coal Tar 2	Black Coal Tar 3	Brown Coal Tar	Steelworks Tar 1	Steelworks Tar 2	Weathered Coal Tar	Creosote 1	Creosote 2	Weathered Creosote	Ash form Black Coal 1	Ash from Black Coal 2	Ash from Black Coal 3	Ash from Brown Coal	Bitumen	Coke	Waste Oil Petrol	Waste Oil Diesel
TP1_08_0.1	0.14	0.64	0.83	-0.12	0.60	0.53	0.47	0.57	0.18	0.63	0.95	0.93	0.91	0.92	0.10	0.90	0.30	0.87
TP3_21_0.1	-0.11	0.36	0.65	-0.34	0.24	0.37	0.06	0.14	-0.20	0.21	0.92	0.81	0.87	0.94	0.13	0.94	0.54	0.87

Method B - Summed Absolute Differnce of Pyrene Normalised Data																		
	Black Coal Tar 1	Black Coal Tar 2	Black Coal Tar 3	Brown Coal Tar	Steelworks Tar 1	Steelworks Tar 2	Weathered Coal Tar	Creosote 1	Creosote 2	Weathered Creosote	Ash form Black Coal 1	Ash from Black Coal 2	Ash from Black Coal 3	Ash from Brown Coal	Bitumen	Coke	Waste Oil Petrol	Waste Oil Diesel
TP1_08_0.1	10.77	4.10	3.32	15.86	4.95	4.78	5.07	5.85	8.87	4.08	1.12	1.58	1.88	1.48	12.74	1.69	5.11	1.85
TP3_21_0.1	10.20	4.15	3.39	17.50	4.90	4.60	6.03	7.95	10.94	6.16	1.49	1.97	1.92	1.23	11.49	1.35	3.34	2.58

APPENDIX C

QA/QC RESULTS TABLES

Table C1 - Hunter River High School - Targeted Environmental Site Quality Assessment Results

				BTEX								TPH					Metals		
				Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	Arsenic	Cadmium	Chromium (III+VI)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.2	10	20	50	50	50	2	0.4	2
Lab Report Number	**Field ID**	**Matrix Type**	**Date**																
958898	**TP1_03_0.1**	**Soil**	**20 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	3.0	<0.4	9.2
958898	**QA01**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	51	51	2.3	<0.4	6.5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	2	2	26	NC	34
958898	**TP1_03_0.1**	**Soil**	**20 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	3.0	<0.4	9.2
ES2303326	**QA01A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	0	NC	59
958898	**TP2_11_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	130	59	189	<2	<0.4	<5
958898	**QA06**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	310	130	440	<2	<0.4	<5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	82	75	80	NC	NC	NC
958898	**TP2_11_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	130	59	189	<2	<0.4	<5
ES2303326	**QA06A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	<2
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	26	0	**116**	NC	NC	NC
958898	**TP3_01_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	<2	<0.4	<5
958898	**QA03**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	<2	<0.4	<5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP3_01_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	<2	<0.4	<5
ES2303326	**QA03A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	<2
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP3_15_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	4.2	<0.4	<5
958898	**QA04**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	4.2	<0.4	<5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	0	NC	NC
958898	**TP3_15_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	4.2	<0.4	<5
ES2303326	**QA04A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	4
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	0	NC	0
958898	**TP4_10_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	200	55	255	3.2	<0.4	<5
958898	**QA11**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	3.9	<0.4	<5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	**120**	10	**134**	20	NC	NC
958898	**TP4_10_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	200	55	255	3.2	<0.4	<5
ES2303326	**QA11A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	4
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	67	0	**134**	0	NC	0
958898	**TP4_17_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	3.1	<0.4	<5
958898	**QA10**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	4.9	<0.4	6.3
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	45	NC	23
958898	**TP4_17_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	3.1	<0.4	<5
ES2303326	**QA10A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	6
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	NC	NC	18
958898	**TP7_07_0.1**	**Soil**	**20 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	24	<0.4	<5
958898	**QA09**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	65	67	132	<2	<0.4	<5
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	26	29	90	**169**	NC	NC
958898	**TP7_01_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	<2	<0.4	<5
ES2303326	**QA09A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	<2
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP7_04_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	2.3	<0.4	6.4
958898	**QA08**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	3.5	<0.4	5.2
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	41	NC	21
958898	**TP7_04_0.1**	**Soil**	**25 Jan 2023**	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	-	<20	<20	<50	<50	<50	2.3	<0.4	6.4
ES2303326	**QA08A**	**Soil**	**25 Jan 2023**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<10	<50	<100	<100	<50	<5	<1	7
RPD				NC	NC	NC	NC	NC	NC	NC	-	NC	NC	NC	NC	NC	NC	NC	9

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

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 100 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Table C1 - Hunter River High School - Targeted Environmental Site Quality Assessment Results

				Metals					TRH							PAH																	
				Copper	Lead	Mercury	Nickel	Zinc	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				5	5	0.1	2	5	10	10	50	50	100	100	50	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Lab Report Number	**Field ID**	**Matrix Type**	**Date**																														
958898	**TP1_03_0.1**	**Soil**	**20 Jan 2023**	6.0	8.0	<0.1	6.1	25	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA01**	**Soil**	**25 Jan 2023**	5.8	6.4	<0.1	5.3	30	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	1.1	0.8	<0.5	0.6	0.9	1.1	<0.5	2.1	<0.5	0.6	<0.5	<0.5	2.1	1.1	9.3
RPD				3	22	NC	14	18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	18	57	75	NC	**123**	NC	18	NC	NC	**123**	75	**180**
958898	**TP1_03_0.1**	**Soil**	**20 Jan 2023**	6.0	8.0	<0.1	6.1	25	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA01A**	**Soil**	**25 Jan 2023**	6	8	<0.1	4	25	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0	NC	42	0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP2_11_0.1**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	19	<20	<20	<50	<50	160	<100	160	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	2.4
958898	**QA06**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	30	<20	<20	<50	<50	390	140	530	<0.5	<0.5	<0.5	1.7	1.3	1.4	0.8	1.8	2.2	<0.5	4.0	<0.5	0.8	<0.5	<0.5	3.8	1.9	18
RPD				NC	NC	NC	NC	45	NC	NC	NC	NC	84	33	**107**	NC	NC	NC	**109**	89	95	46	**113**	**114**	NC	**127**	NC	46	NC	NC	**123**	**117**	**153**
958898	**TP2_11_0.1**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	19	<20	<20	<50	<50	160	<100	160	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	2.4
ES2303326	**QA06A**	**Soil**	**25 Jan 2023**	<5	6	<0.1	<2	30	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	1.7	1.9	2.5	1.3	1.1	2.3	<0.5	6.5	<0.5	1.2	<0.5	1.0	5.7	2.6	25.2
RPD				NC	18	NC	NC	45	NC	NC	NC	NC	46	NC	**105**	NC	NC	NC	**109**	**117**	**133**	89	75	**117**	NC	**151**	NC	82	NC	67	**145**	**135**	**165**
958898	**TP3_01_0.1**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	9.1	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA03**	**Soil**	**25 Jan 2023**	<5	5.0	<0.1	<5	13	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	0	NC	NC	35	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP3_01_0.1**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	9.1	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA03A**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<2	8	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	NC	NC	NC	13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP3_15_0.1**	**Soil**	**25 Jan 2023**	<5	9.5	<0.1	<5	20	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA04**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	10.0	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	62	NC	NC	67	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP3_15_0.1**	**Soil**	**25 Jan 2023**	<5	9.5	<0.1	<5	20	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA04A**	**Soil**	**25 Jan 2023**	<5	8	<0.1	<2	14	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	17	NC	NC	35	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP4_10_0.1**	**Soil**	**25 Jan 2023**	<5	7.7	<0.1	<5	19	<20	<20	<50	<50	230	<100	230	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA11**	**Soil**	**25 Jan 2023**	<5	7.3	<0.1	<5	22	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	5	NC	NC	15	NC	NC	NC	NC	79	NC	79	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP4_10_0.1**	**Soil**	**25 Jan 2023**	<5	7.7	<0.1	<5	19	<20	<20	<50	<50	230	<100	230	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA11A**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<2	9	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	43	NC	NC	71	NC	NC	NC	NC	79	NC	**129**	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP4_17_0.1**	**Soil**	**25 Jan 2023**	<5	5.4	<0.1	<5	14	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA10**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	24	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	8	NC	NC	53	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP4_17_0.1**	**Soil**	**25 Jan 2023**	<5	5.4	<0.1	<5	14	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA10A**	**Soil**	**25 Jan 2023**	<5	6	<0.1	3	21	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	11	NC	0	40	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP7_07_0.1**	**Soil**	**20 Jan 2023**	<5	13	<0.1	<5	21	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA09**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	16	<20	<20	<50	<50	120	<100	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	89	NC	NC	27	NC	NC	NC	NC	18	NC	18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP7_01_0.1**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<5	8.9	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA09A**	**Soil**	**25 Jan 2023**	<5	<5	<0.1	<2	13	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				NC	NC	NC	NC	37	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP7_04_0.1**	**Soil**	**25 Jan 2023**	5.9	12	<0.1	5.5	25	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
958898	**QA08**	**Soil**	**25 Jan 2023**	5.2	8.4	<0.1	<5	18	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				13	35	NC	10	33	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
958898	**TP7_04_0.1**	**Soil**	**25 Jan 2023**	5.9	12	<0.1	5.5	25	<20	<20	<50	<50	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ES2303326	**QA08A**	**Soil**	**25 Jan 2023**	6	13	<0.1	5	26	<10	<10	<50	<50	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				2	8	NC	10	4	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	NC

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

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any m**

Table C2 - Hunter River High School - Targeted Environmental Site Assessment Assessment Results - Trip Blank - Trip Spike and Rinsate

				TRH		TPH			BTEX						
				C6-C10 Fraction (F1)	>C10-C16 Fraction (F2)	C6-C9 Fraction	C10-C14 Fraction	C10-C36 Fraction (Sum)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total
				µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				20	50	20	50	100	0.01	1	1	1	2	3	3
Lab Report Number	**Field ID**	**Matrix Type**	**Date**												
PS135419	**TRIP SPIKE**	**Soil**	**18 Jan 2023**	97	-	99	-	-	120	100	110	110	120	120	120
	TRIP SPIKE	**Soil**	**19 Jan 2023**	78	-	82	-	-	86	92	89	87	87	94	91
	TRIP SPIKE	**Soil**	**20 Jan 2023**	85	-	89	-	-	77	92	97	94	94	90	91
	TRIP SPIKE	**Soil**	**23 Jan 2023**	110	-	110	-	-	110	120	120	110	110	110	110
PS135419	**Trip Blank**	**Soil**	**23 Jan 2023**	<20	-	<20	-	-	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
	Trip BLANK	**Soil**	**18 Jan 2023**	<20	-	<20	-	-	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
	Trip BLANK	**Soil**	**19 Jan 2023**	<20	-	<20	-	-	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
	Trip BLANK	**Soil**	**20 Jan 2023**	<20	-	<20	-	-	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
PS135419	**RINSATE BLANK**	**Soil**	**18 Jan 2023**	-	<50	-	<50	<100	-	-	-	-	-	-	-
	RINSATE BLANK	**Soil**	**18 Jan 2023**	-	60	-	100	100	-	-	-	-	-	-	-
	RINSATE BLANK	**Soil**	**20 Jan 2023**	-	<50	-	<50	<100	-	-	-	-	-	-	-
	RINSATE BLANK	**Soil**	**23 Jan 2023**	-	-	-	-	<0	-	-	-	-	-	-	-

APPENDIX D

SITE PHOTOGRAPHS

	PHOTOGRAPHIC LOG – Site Inspection

Client Name	**Project**	**Project No.**
Department of Education NSW	Targeted Environmental Site Assessment– Hunter River High School, Raymond Terrace NSW 2324	PS135419

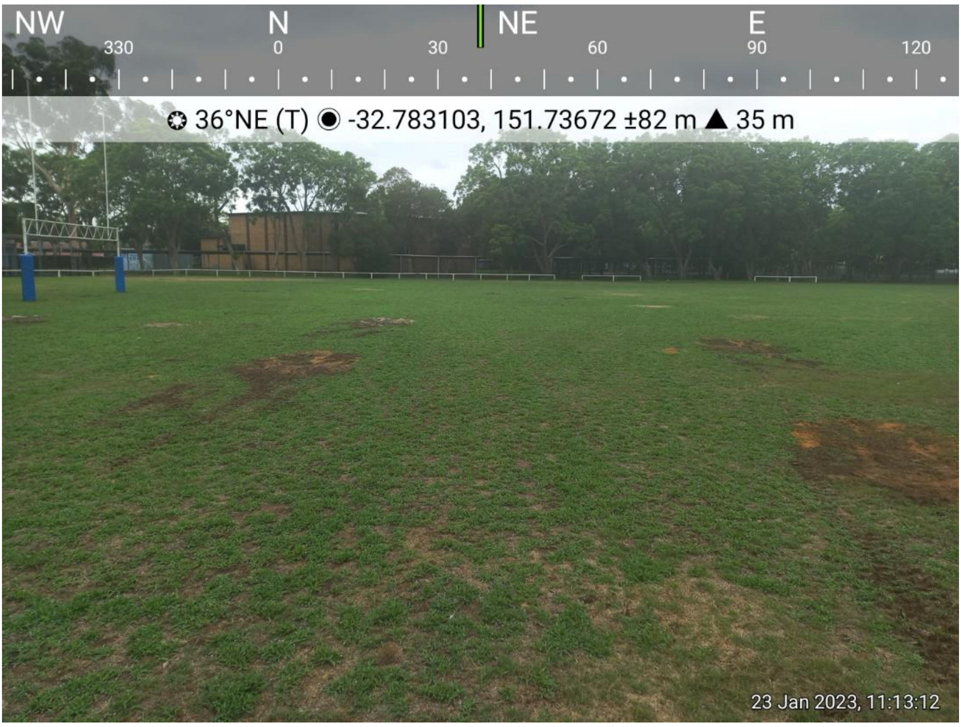
Photo No.	**Date**	
1	23 January 2023	
Description Representative photo of Area 1 following the completion of site works		

Photo No.	**Date**	
2	23 January 2023	
Description Representative photo of Area 2 following the completion of site works		

<table>
<tr><td colspan="2"></td><td>PHOTOGRAPHIC LOG – Site Inspection</td></tr>
<tr><td>Client Name
Department of Education NSW</td><td>Project
Targeted Environmental Site Assessment– Hunter River High School, Raymond Terrace NSW 2324</td><td>Project No.
PS135419</td></tr>
</table>

<table>
<tr><td>Photo No.
3</td><td>Date
23 January 2023</td><td rowspan="2">
</td></tr>
<tr><td colspan="2">Description
Representative photo of Area 3 following the completion of site works</td></tr>
</table>

<table>
<tr><td>Photo No.
4</td><td>Date
23 January 2023</td><td rowspan="2">
</td></tr>
<tr><td colspan="2">Description
Representative photo of Area 4 following the completion of site works</td></tr>
</table>

Photo No.	**Date**	
5	23 January 2023	
Description		
Representative photo of Area 7 following the completion of site works		

Photo No.	**Date**	
6	18 January 2023	
Description		
Sampling equipment prior to test pit excavation and soil sampling		

Photo No.	**Date**
7	18 January 2023

Description

Sieve Soil Sampling during a test pit excavation.

Photo No.	**Date**
8	19 January 2023

Description

Test Pit 2_07 after excavation, logging and sampling, then backfilling and surface reinstatement. Asbestos identified in this location

Photo No.	**Date**	
9	19 January 2023	
Description Test Pit 2_14 after excavation, logging and sampling, then backfilling and surface reinstatement. Asbestos identified in this location		

Photo No.	**Date**	
10	19 January 2023	
Description Test Pit 3_20 after excavation, logging and sampling, then backfilling and surface reinstatement		

PHOTOGRAPHIC LOG – Site Inspection

Client Name	Project	Project No.
Department of Education NSW	Targeted Environmental Site Assessment– Hunter River High School, Raymond Terrace NSW 2324	PS135419

Photo No.	Date
11	20 January 2023

Description

Test Pit 4_05 after excavation, logging and sampling, then backfilling and surface reinstatement

Photo No.	Date
12	23 January 2023

Description

Test Pit 7_30 after excavation, logging and sampling, then backfilling and surface reinstatement

APPENDIX E

ENVIRONMENTAL TEST PIT LOGS

TEST PIT: 101

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▩	GP	FILL Sandy GRAVEL: angular, grey, sand is medium grained; with slag observed.			FILL
			0.1		ES 0.10-0.12 m PID 0.10 m 0 ppm		▩					0.10-0.12: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229305
			0.2				▩					
			0.3				▩			D		
			0.4				▩					0.40-0.42: metal bar noted, minor visual evidence of contamination identified
			0.5				▩					
			0.6	*0.60*	ES 0.60-0.62 m		⁘	SP	SAND: fine grained, yellow.	D		NATURAL
			0.7	*0.70*					Hole Terminated at 0.70 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 102

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, yellow, with organics.	D		TOPSOIL and FILL
				0.05	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine to medium grained, brown, with coarse grained gravel; charcoal and slag noted.	D		FILL 0.10-0.12: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229306 0.12-0.40: minor visual evidence of contamination - soil discolouration, construction and demolition waste
				0.58	ES 0.60-0.62 m			SP	FILL SAND: fine grained, grey black, with coarse grained gravel; charcoal gravel.	D		
				0.62					Hole Terminated at 0.62 m Target depth			

0.0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6

Comments

Checked JH

Date 28/3/2023

TEST PIT: 103

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05	ES 0.00-0.10 m		▨	CL	TOPSOIL and FILL Sandy SILT: brown yellow, sand is fine grained; trace fine grained gravel; covered with grass - rubbish glass observed.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4 0.5	0.50	ES 0.10-0.20 m PID 0.10 m 0 ppm ES 0.20-0.60 m		▨	SM	FILL Silty SAND: fine grained, yellow.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229307 0.10-0.60: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
				0.60			▨	SM	FILL Silty SAND: fine grained, grey, trace fine grained gravel; with slag observed.	D		
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 104

Project:	Hunter River TESA	Position:	Area 1	Sheet	1 of 1
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	CL	TOPSOIL and FILL Sandy SILT: brown, sand is fine grained; trace fine grained gravel; grass - plastic observed.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4	*0.50*	ES 0.10-0.12 m PID 0.10 m 0 ppm ES 0.48-0.50 m		▨	SM	FILL Silty SAND: fine grained, grey, with medium grained gravel; road base gravel layer.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229308 0.10-0.60: minor visual evidence of contamination - soil discolouration, construction and demolition waste
			0.5	*0.60*			▨	SM	FILL Silty SAND: fine grained, pale yellow brown.	M		
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 105

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	CL	TOPSOIL and FILL Sandy SILT: brown, sand is fine grained; grass.	D		TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.08-0.10 m PID 0.10 m 0 ppm		▨	CL	FILL Sandy SILT: pale yellow brown, sand is fine grained; with fine grained gravel; slag, glass and plastic observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229309 0.10-0.50: minor visual evidence of contamination - soil discolouration, glass, plastic, construction and demolition waste
			0.4 0.5	*0.60*	ES 0.48-0.50 m		░	SP	SAND: fine grained, pale yellow brown.	M		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 106

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
		Not Encountered	0.0	*0.05*	ES 0.00-0.10 m			CL	TOPSOIL and FILL Sandy SILT: brown, sand is fine grained; covered with grass, abundant organics.	D		TOPSOIL and FILL 0.00-0.60: No visual or olfactory evidence of contamination identified TOPSOIL and FILL
			0.1 0.2 0.3 0.4	*0.50*	ES 0.10-0.50 m PID 0.10 m 0 ppm			CL	FILL Sandy SILT: brown, sand is fine grained.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229310
			0.5	*0.60*				SP	SAND: fine grained, pale grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 107

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					**Sampling**		**Field Material Description**					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*	ES 0.00-0.10 m		▨	CL	TOPSOIL and FILL Sandy SILT: brown, sand is fine grained; with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.10-0.50 m PID 0.10 m 0 ppm		▨	CL	FILL Clayey SILT: brown, with fine grained sand.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229311 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.4 0.5	*0.60*			▨	SM	FILL Silty SAND: fine grained, pale grey.	D		
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 108

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05				SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 0 ppm ES 0.48-0.50 m			SM	FILL Silty SAND: fine grained, brown, trace medium grained gravel; with plant rootlets.	M		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229312 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.5	0.60				SP	SAND: fine grained, grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 109

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					**Sampling**		**Field Material Description**					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*				SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown, trace medium grained gravel; with slag and gravel layer observed.	M		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229313 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.4 0.5	*0.60*	ES 0.48-0.50 m			SP	SAND: fine grained, dark grey yellow.	M		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 110

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 1
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 23/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale grey, with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229314 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.4	0.50	ES 0.48-0.50 m		⁘	SP	SAND: fine grained, grey.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 111

Project:	Hunter River TESA	Position:	Area 1	Sheet	1 of 1
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▩	SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2	*0.30*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▩	SM	FILL Silty SAND: fine grained, brown and grey, with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229315 0.10-0.42: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.3 0.4 0.5	*0.60*	ES 0.38-0.40 m		░	SP	FILL SAND: fine grained, grey, with slag observed.	D		0.40-0.42: metal pipe observed
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 112

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 1
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 23/1/2023
Logged: GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Gravelly Silty SAND: fine grained, brown, gravel is medium grained; with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229357 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.4 0.5	*0.60*	ES 0.48-0.50 m		░	SP	SAND: fine grained, orange, with slag observed.	M		NATURAL 0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229358
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 113

Project:	Hunter River TESA	Position:	Area 1	Sheet	1 of 1
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
				0.05				SM	FILL Silty SAND: fine grained, grey, with coarse grained gravel; with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229359
			0.1		ES 0.10-0.12 m PID 0.10 m 0 ppm							0.10-0.12: QA07, QA07A
			0.2									
			0.3									0.30-0.32: visual evidence of contamination - soil discolouration, slag and gravel layer
			0.4	0.40				SW	SAND: fine to coarse grained, pale yellow, with slag observed.	M		NATURAL
					ES 0.48-0.50 m							0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229360
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 114

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, brown, with medium grained gravel; with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229361 0.10-0.50: minor visual evidence of contamination - soil discolouration, construction and demolition waste
			0.4	0.50	ES 0.48-0.50 m		⁙	SM	Silty SAND: fine grained, dark orange, with slag observed.	D		NATURAL 0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229362
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 115

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	0.05	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, brown, with coarse grained gravel; with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229363 0.30-0.32: gravel and conglomerate layer observed
			0.4	0.40	ES 0.48-0.50 m			SM	Silty SAND: fine grained, pale yellow, with slag observed.	M		NATURAL 0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229364
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 116

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*				SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, grey, with coarse grained gravel; with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229365 0.30-0.32: gravel and conglomerate layer observed
			0.4	*0.50*	ES 0.48-0.50 m			SM	Silty SAND: fine grained, pale yellow, with slag observed.	M		NATURAL 0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229366
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 117

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 1		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*				SM	TOPSOIL and FILL Silty SAND: fine to medium grained, brown, with organics.	D		TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown, with slag observed.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229367 0.10-0.50: minor visual evidence of contamination - soil discolouration, construction and demolition waste
			0.4	*0.50*	ES 0.48-0.50 m			SM	Silty SAND: fine grained, dark orange, with slag observed.	M		NATURAL 0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229368
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 201

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.10: organics observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229267, field pH = 7
			0.1 0.2 0.3 0.4	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm ES 0.43-0.45 m		▨	SP	FILL SAND: fine grained, grey.	D		FILL 0.10-0.20: organics observed FILL 0.44-0.45: danger tape observed - pit aborted
				0.45					Hole Terminated at 0.45 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 202

Project:	Hunter River TESA	Position:	Area 2	Sheet	1 of 1
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229268
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SP	FILL SAND: fine grained, grey, with coarse grained gravel.	D		FILL 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
			0.2									
			0.3									
			0.4		ES 0.48-0.50 m							
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 203

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey, with coarse grained gravel.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 1.2 ppm ES 0.48-0.50 m		▨	SP	FILL SAND: fine grained, grey, with coarse grained gravel.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample229269 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.5	0.60			⁙	SM	Silty SAND: fine grained, brown, with coarse grained gravel.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 204

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.20: organics observed TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 1.1 ppm		▨	SM	FILL Silty SAND: fine grained, dark grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229271 0.10-0.50: minor visual evidence of contamination - soil discolouration, plastic, slag, construction and demolition waste
			0.5	0.60	ES 0.58-0.60 m		⁘	SP	SAND: fine grained, light grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 205

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.20: organics observed TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 0.8 ppm		▨	SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229273, field pH = 7 0.10-0.12: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.5	0.60	ES 0.58-0.60 m		░	SP	SAND: fine grained, light grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 206

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05				SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.20: organics observed TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 0.8 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229274 0.30-0.32: Slag and gravel layer observed
			0.5	0.60	ES 0.58-0.60 m			SP	SAND: fine grained, light grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 207

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 2
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 18/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 0.8 ppm		▨	SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229275 (asbestos identified) 0.10-0.12: QA05, QA05A 0.15-0.20: minor visual evidence of contamination - soil discolouration, charcoal, construction and demolition waste
			0.5	0.60	ES 0.58-0.60 m		⁘	SP	SAND: fine grained, light grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 208

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.10: large roots and organics observed TOPSOIL and FILL
			0.1 0.2 0.3 0.4	*0.50*	ES 0.10-0.12 m PID 0.10 m 0.7 ppm		▨	SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229276 0.10-0.60: minor visual evidence of contamination - soil discolouriation, slag, construction and demolition waste
			0.5	*0.60*	ES 0.58-0.60 m		⁘	SP	SAND: fine grained, light grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 209

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 2
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 18/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4	0.50	ES 0.10-0.12 m PID 0.10 m 0.7 ppm		▨	SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229277 0.10-0.50: minor visual evidence of contamination - soil discolouration, plastic, construction and demolition waste
			0.5	0.60	ES 0.58-0.60 m		⁘	SP	SAND: fine grained, yellow grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 210

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL
			0.1 0.2 0.3 0.4	*0.50*	ES 0.10-0.12 m PID 0.10 m 1 ppm		▨	SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229278 0.10-0.20: plastic, large roots, organics observed
			0.5	*0.60*	ES 0.58-0.60 m		░	SP	SAND: fine grained, dark and light grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 211

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 2
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 19/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▩	SM	TOPSOIL and FILL Silty SAND: fine grained, grey, with coarse grained gravel.	D		TOPSOIL and FILL
				0.05	ES 0.10-0.12 m PID 0.10 m 0.1 ppm		▩	SM	FILL Silty SAND: fine grained, grey, with medium to coarse grained gravel.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229299 0.10-0.12: QA06, QA06A 0.13-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.5	0.50	ES 0.58-0.60 m		∴	SP	SAND: fine grained, light grey.	D		NATURAL
			0.6	0.60					Hole Terminated at 0.60 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 212

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey, with coarse grained gravel.			TOPSOIL and FILL
			0.1 0.2 0.3 0.4	*0.50*	ES 0.10-0.12 m PID 0.10 m 0 ppm ES 0.48-0.50 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229300 0.10-0.12: organics, tree roots observed 0.12-0.50: minor visual evidence of contamination - soil discolouration, slag, ceramic, construction and demolition waste
			0.5	*0.60*			░	SP	SAND: fine grained, pale grey.	D		NATURAL
			0.6						Hole Terminated at 0.60 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 213

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05				SM	TOPSOIL and FILL Silty SAND: fine grained, grey, with coarse grained gravel.			TOPSOIL and FILL 0.00-0.15: tree roots and organics observed TOPSOIL and FILL
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 0.2 ppm			SM	FILL Silty SAND: fine grained, grey, with coarse grained gravel.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample229301 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste
			0.4	0.50	ES 0.48-0.50 m			SP	SAND: fine grained, grey pale pale pale grey and yellow.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 214

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, grey, with coarse grained gravel.			TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229302
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.1 ppm			SM	FILL Silty SAND: fine grained, grey, with coarse grained gravel.	D		FILL 0.10-0.50: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
			0.2									
			0.3		ES 0.30-0.31 m asbestos fragment sampled for analysis							0.30-0.31: FCS bulk sample 229379 (asbestos identified)
			0.4	0.40	ES 0.48-0.50 m			SP	SAND: fine grained, grey pale pale pale pale.	D		NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 215

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 2
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 19/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0 0.1 0.2 0.3		ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: coarse grained, grey, with coarse grained gravel.	D		FILL 0.00-0.50: minor visual evidence of contamination - soil discolourisation, slag, construction and demolition waste FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229303
			0.4	*0.40*	ES 0.48-0.50 m		⠿	SP	SAND: fine grained, grey.	D		NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 216

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 2		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▩	SM	FILL Silty SAND: coarse grained, grey, with coarse grained gravel.	D		FILL
			0.1		ES 0.10-0.12 m PID 0.10 m 0 ppm							0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229304 0.10-0.50: minor visual evidence of contamination - soil discolourisation, slag, construction and demolition waste
			0.2									
			0.3									
			0.4	*0.40*			⁘	SP	SAND: fine grained, grey and orange.	D		NATURAL
			0.5	*0.50*	ES 0.48-0.50 m				Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 301

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine to coarse grained, light grey.	D		NATURAL 0.00-0.15: tree roots observed NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229247
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							0.10-0.12: QA03, QA03A
												0.15-0.45: No visual or olfactory evidence of contamination identified
			0.2									
			0.3									
			0.4									
					ES 0.43-0.45 m							
				0.45					Hole Terminated at 0.45 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 302

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine to coarse grained, light brown.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229249
			0.1		ES 0.10-0.12 m PID 0.10 m 0.3 ppm							
			0.2									
			0.3									
			0.4		ES 0.45-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 303

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine to coarse grained, brown light to pale brown.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229250
			0.1		ES 0.10-0.12 m PID 0.10 m 0.2 ppm							
			0.2									
			0.3									
			0.4		ES 0.43-0.45 m							
				0.45					Hole Terminated at 0.45 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 304

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine to coarse grained, grey to yellow and pale grey.	D		NATURAL 0.00-0.10: roots and organics observed NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229251
			0.1		ES 0.10-0.12 m PID 0.10 m 0.3 ppm							0.10-0.45: No visual or olfactory evidence of contamination identified, field pH = 7
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 305

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229252
			0.1		ES 0.10-0.12 m PID 0.10 m 0.6 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 306

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, light grey to yellow.	D		NATURAL 0.00-0.15: organics observed NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229253
			0.1		ES 0.10-0.12 m PID 0.10 m 0.5 ppm							
												0.15-0.45: No visual or olfactory evidence of contamination identified
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 307

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 3
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 18/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, light grey.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229254
			0.1		ES 0.10-0.12 m PID 0.10 m 0.5 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 308

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, light grey to yellow.	D		NATURAL 0.00-0.15: organics observed NATURAL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229255
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							0.15-0.45: No visual or olfactory evidence of contamination identified
			0.2									
			0.3									
			0.4		ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 309

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229256
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 310

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229257
			0.1		ES 0.10-0.12 m PID 0.10 m 0.5 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 311

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229258
			0.1		ES 0.10-0.12 m PID 0.10 m 0.5 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 312

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine grained, grey to orange.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229259
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

WSP-AU 5.03.3 LIB.GLB Log IS AU BOREHOLE 3 HRHS TESA LOGS.GPJ <<DrawingFile>> 28/3/2023 23:44 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.03.3 2023-01-19 Prj: WSP 5.03.3 2023-01-19

TEST PIT: 313

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey to orange.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229260
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							
			0.2									
			0.3									
			0.4									
				0.50	ES 0.48-0.50 m							
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

WSP-AU 5.03.3 LIB.GLB Log IS AU BOREHOLE 3 HRHS TESA LOGS.GPJ <<DrawingFile>> 28/3/2023 23:44 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.03.3 2023-01-19 Prj: WSP 5.03.3 2023-01-19

TEST PIT: 314

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey to orange.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229261
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 315

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey to orange.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229262
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							0.10-0.12: QA04, QA04A
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 316

				Sheet	1 of 1
Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SP	SAND: fine grained, grey to yellow.	D		NATURAL 0.00-0.05: organics and concrete observed NATURAL 0.05-0.45: No visual or olfactory evidence of contamination identified 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229263
			0.1		ES 0.10-0.12 m PID 0.10 m 0.5 ppm							
			0.2									
			0.3									
			0.4		ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 317

				Sheet	1 of 1
Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				⁘	SP	SAND: fine grained, pale grey to light grey with orange mottled.	D		NATURAL 0.00-0.10: organics observed NATURAL
							⁘					0.08-0.10: AF/FA sample 229264
			0.1		ES 0.10-0.12 m PID 0.10 m 0.3 ppm		⁘					0.10-0.45: No visual or olfactory evidence of contamination identified
			0.2				⁘					
			0.3				⁘					
			0.4				⁘					
					ES 0.48-0.50 m		⁘					
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 318

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 3
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 18/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			0.0					SM	Silty SAND: fine grained, light grey.			NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229265
			0.1		ES 0.10-0.12 m PID 0.10 m 0.3 ppm							
E		Not Encountered	0.2							D		
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 319

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine grained, light grey.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229266
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 320

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	18/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine grained, light grey to orange.	D		NATURAL 0.00-0.45: No visual or olfactory evidence of contamination identified NATURAL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229267
			0.1		ES 0.10-0.12 m PID 0.10 m 0.4 ppm							
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 321

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 3		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	Silty SAND: fine grained, brown to pale yellow.	D		NATURAL 0.00-0.15: organics and tree roots observed NATURAL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229316
			0.1		ES 0.10-0.12 m PID 0.10 m 0 ppm							
												0.15-0.45: No visual or olfactory evidence of contamination identified
			0.2									
			0.3									
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 401

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	FILL Silty SAND: fine grained, light grey, with coarse grained gravel.			FILL 0.00-0.40: building waste and terracotta observed FILL
												0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229279, field pH = 7
			0.1		ES 0.10-0.12 m PID 0.10 m 0.6 ppm					D		
			0.2	*0.20*				SM	Silty SAND: fine grained, light grey.			NATURAL
			0.3									
										D		
			0.4									
					ES 0.48-0.50 m							
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 402

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.50: minor visual evidence of contamination - soil discolouration TOPSOIL and FILL
			0.1	0.05	ES 0.10-0.12 m PID 0.10 m 0.2 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229280
			0.4	0.40	ES 0.48-0.50 m			SM	Silty SAND: fine grained, light grey.	D		NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 403

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05				SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.10: organics observed TOPSOIL and FILL
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 0.4 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229281 0.10-0.20: minor visual evidence of contamination - soil discolouration, slag, concrete waste, construction and demolition waste
			0.4	0.50	ES 0.48-0.50 m			SM	Silty SAND: fine grained, yellow.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 404

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.05			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, light grey.	D		TOPSOIL and FILL 0.00-0.15: large roots TOPSOIL and FILL
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 1.5 ppm		▨	SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229282 0.10-0.12: minor visual evidence of contamination - soil discolouration, slag, glass, construction and demolition waste
			0.4	0.50	ES 0.48-0.50 m		░	SM	Silty SAND: fine grained, light grey.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 405

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.05*			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.25: organics, roots and plastic debris observed, minor visual evidence of contamination identified TOPSOIL and FILL
			0.1 0.2 0.3	*0.40*	ES 0.10-0.12 m PID 0.10 m 0.4 ppm		▨	SM	FILL Silty SAND: fine grained, light grey.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229283
			0.4	*0.50*	ES 0.48-0.50 m		⁙	SM	Silty SAND: fine grained, grey and orange.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 406

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.20: roots, glass, plastic observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229284
			0.1 0.2 0.3	0.10	ES 0.10-0.12 m PID 0.10 m 1.2 ppm		▨	SM	FILL Silty SAND: fine grained, light grey.	D		FILL
			0.4	0.40	ES 0.48-0.50 m		░	SP	SAND: fine grained, orange.	D		NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 407

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0		ES 0.08-0.10 m		▩	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.20: roots and plastic debris observed, minor visual evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229285
			0.1	0.10	PID 0.10 m 1.7 ppm		▩	SM	FILL Silty SAND: fine grained, brown.	D		FILL
			0.2									
			0.3									
			0.4	0.40	ES 0.48-0.50 m		⁘	SM	Silty SAND: fine grained, orange.	D		NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 408

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.15: plastic debris observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229286
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 1.8 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.12-0.15: layer of slag and gravel observed, minor visual evidence of contamination identified
			0.2									
			0.3									
			0.4	*0.40*	ES 0.48-0.50 m			SM	Silty SAND: fine grained, orange and yellow.	D		NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 409

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.10			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.30: plastic and slag observed, minor visual evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229287
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 0.2 ppm		▨	SM	FILL Silty SAND: fine grained, grey.	D		FILL
			0.4	0.50	ES 0.48-0.50 m		░	SM	Silty SAND: fine grained, orange.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 410

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.20: glass, plastic, large roots observed, minor visual evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229288
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.10-0.12: QA11, QA11A FILL
			0.2									
			0.3									
			0.4	*0.40*	ES 0.48-0.50 m			SM	Silty SAND: fine grained, orange.	D		NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 411

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.50: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229290
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown.	D		FILL
			0.2									
			0.3									
			0.4	*0.40*	ES 0.48-0.50 m			SM	Silty SAND: fine grained, orange.	D		NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 412

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					**Sampling**		**Field Material Description**					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.20: plastic, roots and organics observed TOPSOIL and FILL
				0.05	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229291
			0.1									
			0.2									
			0.3									
			0.4	0.40	ES 0.48-0.50 m			SM	FILL Silty SAND: fine grained, orange.	D		0.48-0.50: charcoal inclusions, minor visual evidence of contamination identified
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 413

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229292
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.10-0.15: charcoal inclusions, minor visual evidence of contamination identified FILL
			0.2									
			0.3									
			0.4	0.40	ES 0.48-0.50 m			SM	Silty SAND: fine grained, orange.	D		NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 414

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.10				SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.20: organics and plastic observed, minor visual evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229293
			0.1	0.40	PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL
			0.2									
			0.3									
			0.4	0.50				SM	Silty SAND: fine grained, orange.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 415

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, light brown.	D		TOPSOIL and FILL 0.00-0.50: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229294
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown.	D		FILL
			0.2									
			0.3									
			0.4	0.40				SM	Silty SAND: fine grained, yellow and white.	D		NATURAL
					ES 0.48-0.50 m							
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 416

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.20: organics and roots observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229295
			0.1 0.2 0.3	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.10-0.12: charcoal and plastic observed, minor visual evidence of contamination identified FILL
			0.4	*0.40*	ES 0.48-0.50 m			SM	Silty SAND: fine grained, light grey and white.	D		NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 417

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	*0.10*				SM	TOPSOIL and FILL Silty SAND: fine grained, brown, with clay.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229296
			0.1 0.2 0.3	*0.40*	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.10-0.12: QA10, QA10A FILL 0.12-0.15: charcoal inclusions, minor visual evidence of contamination identified
			0.4	*0.50*	ES 0.48-0.50 m			SP	SAND: fine grained, orange.	D		NATURAL
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 418

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.20: organics observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229297
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.10-0.15: charcoal observed, minor visual evidence of contamination identified FILL
			0.4	*0.40*	ES 0.48-0.50 m		∴	SP	SAND: fine grained, orange.	D		NATURAL
			0.5	*0.50*					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 419

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	19/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, light grey.	D		TOPSOIL and FILL 0.00-0.10: plastic debris observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229298
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, light grey.	D		FILL 0.10-0.12: charcoal inclusions, minor visual evidence of contamination identified FILL
			0.4	0.40	ES 0.48-0.50 m		⠿	SP	SAND: fine grained, white.	D		NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 420

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, grey.	D		TOPSOIL and FILL 0.00-0.50: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229369
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, light grey.	D		FILL
			0.2									
			0.3									
			0.4	0.40	ES 0.48-0.50 m		⁘	SP	SAND: fine grained, pale yellow.	D		NATURAL 0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229370
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 421

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL Silty SAND: fine grained, brown.	D		TOPSOIL 0.00-0.20: organics and tree roots observed, no visual or olfactory evidence of contamination identified TOPSOIL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229371
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	Silty SAND: fine grained, brown.	D		NATURAL
			0.2									
			0.3									
			0.4	0.40	ES 0.48-0.50 m			SP	SAND: fine grained, pale yellow.	D		0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229372
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 422

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.10				SM	TOPSOIL Silty SAND: fine grained, brown.	D		TOPSOIL 0.00-0.10: tree roots observed, no visual evidence of contamination TOPSOIL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229373
			0.1 0.2 0.3	0.40	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	Silty SAND: fine grained, grey.	D		NATURAL
			0.4	0.50	ES 0.48-0.50 m			SP	SAND: fine grained, pale yellow.	D		0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229374
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 423

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 4		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL Silty SAND: fine grained, brown.	D		TOPSOIL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229375
			0.1 0.2 0.3	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	Silty SAND: fine grained, grey, with coarse grained gravel.	D		NATURAL 0.10-0.30: minor visual evidence of contamination - soil discolourisation NATURAL
			0.4	0.40	ES 0.48-0.50 m			SP	SAND: fine grained, pale yellow.	D		0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229376
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 424

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 4
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 23/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL Silty SAND: fine grained, brown.	D		TOPSOIL 0.00-0.10: tree roots observed TOPSOIL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229377
			0.1 0.2 0.3	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	Silty SAND: fine grained, grey.	D		NATURAL 0.10-0.50: No visual or olfactory evidence of contamination identified NATURAL
			0.4	0.40	ES 0.48-0.50 m			SP	SAND: fine grained, orange.	D		0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229378
			0.5	0.50					Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 701

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.10: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229318
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.4 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.10-0.12: QA09, QA09A FILL
			0.2									
				0.25	ES 0.28-0.30 m			SP	SAND: fine grained, pale yellow.	M		NATURAL
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 702

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229319
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL
			0.2	*0.25*	ES 0.28-0.30 m			SP	SAND: fine grained, pale yellow.	M		NATURAL
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 703

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229320
			0.1 0.2	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL
				0.25	ES 0.28-0.30 m			SP	SAND: fine grained, light grey.	D		NATURAL
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 704

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229321
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.3 ppm		▨	SM	FILL Silty SAND: fine grained, brown.	D		FILL 0.10-0.12: QA08, QA08A FILL 0.12-0.30: No visual or olfactory evidence of contamination identified
			0.2				▨					
				0.25	ES 0.28-0.30 m		⠿	SP	SAND: fine grained, dark grey.	D		NATURAL
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 705

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 20/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229322
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm		▨	SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste FILL
			0.2	*0.25*	ES 0.28-0.30 m		⁙	SP	SAND: fine grained, yellow.	D		NATURAL
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 706

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229323
			0.1 0.2	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL 0.10-0.15: minor visual evidence of contamination - soil discolouration, glass, construction and demolition waste FILL
				0.25	ES 0.28-0.30 m			SP	SAND: fine grained, yellow.	M		NATURAL
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 707

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▩	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229324
			0.1 0.2	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm		▩	SM	FILL Silty SAND: fine grained, dark grey.	D		FILL 0.10-0.15: minor visual evidence of contamination - soil discolouration, charcoal, construction and demolition waste FILL
				0.25	ES 0.28-0.30 m		░	SP	SAND: fine grained, pale yellow.	M		NATURAL
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 708

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229325
			0.1	*0.10*	PID 0.10 m 0.3 ppm			SP	FILL Gravelly SAND: fine grained, dark grey, gravel is coarse grained.	D		FILL 0.10-0.20: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
			0.2	*0.20*				SM	Silty SAND: fine grained, pale grey.	M		NATURAL
				0.25				SP	SAND: fine grained, pale yellow.	M		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 709

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229326
			0.1 0.2	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm			SP	FILL Gravelly SAND: fine grained, dark grey, gravel is coarse grained.	D		FILL 0.20-0.25: coal tar, charcoal and conglomerate layer observed
				0.25	ES 0.28-0.30 m			SP	SAND: fine grained, yellow.	M		NATURAL
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 710

				Sheet	1 of 1
Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					**Sampling**		**Field Material Description**					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▩	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229327
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▩	SP	FILL Gravelly SAND: fine grained, dark grey, gravel is coarse grained.	D		FILL 0.10-0.20: charcoal, conglomerate and minor evidence of contaminaiton observed FILL
			0.2				▩					
				0.25	ES 0.28-0.30 m		⁘	SP	SAND: fine grained, pale yellow.	D		NATURAL
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked	JH
Date	28/3/2023

TEST PIT: 711

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.10: rootlets and organics observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229328
			0.1	0.10	PID 0.10 m 0 ppm			SM	FILL Silty SAND: fine grained, grey.	D		FILL
			0.2									
				0.25				SP	SAND: fine grained, orange.	D		NATURAL
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 712

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229329
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm			SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.15: terracotta pipe fragments observed, minor visual evidence of contamination identified FILL
			0.2									
				0.25	ES 0.28-0.30 m			SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 713

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229317
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.3 ppm			SM	FILL Silty SAND: fine grained, pale grey.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
			0.2									
				0.25	ES 0.28-0.30 m			SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 714

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 20/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: construction and demolition waste observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229330
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL
			0.2				▨					
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 715

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229331
			0.1 0.2	*0.10*	PID 0.10 m 0.2 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
				0.25			▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 716

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 20/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229332
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.3 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL
			0.2									
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 717

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229333
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.2 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste FILL
			0.2				▨			D		
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, grey.			
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 718

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229334
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.1 ppm			SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
			0.2									
				0.25	ES 0.28-0.30 m			SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 719

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229335
			0.1 0.2	0.10	ES 0.10-0.12 m PID 0.10 m 0.3 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, charcoal, construction and demolition waste FILL
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 720

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 20/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229336
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.2 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: construction and demolition waste observed FILL
			0.2									
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 721

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0	0.10			▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229337
			0.1 0.2	0.25	ES 0.10-0.12 m PID 0.10 m 0.2 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
				0.30	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3						Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 722

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229338
			0.1 0.2	0.10	ES 0.10-0.12 m PID 0.10 m 0.2 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
				0.25	ES 0.28-0.12 m		▨	SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 723

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229339
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.2 ppm			SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, slag, construction and demolition waste FILL
			0.2									
				0.25	ES 0.28-0.30 m			SM	FILL Silty SAND: fine grained, grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 724

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	20/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229340
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0.3 ppm			SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, charcoal, construction and demolition waste FILL
			0.2									
				0.25	ES 0.28-0.30 m			SM	FILL Silty SAND: fine grained, dark grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 725

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 20/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0					SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.10: organics observed TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229341
			0.1 0.2	0.10	PID 0.10 m 0.2 ppm			SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste FILL
				0.25				SM	FILL Silty SAND: fine grained, dark grey.	D		
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 726

				Sheet	1 of 1
Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					**Sampling**		**Field Material Description**					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229342
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, charcoal, construction and demolition waste FILL
			0.2									
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	D		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 727

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling	Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229343
			0.1	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste FILL
			0.2	0.25			▨	SM	FILL Silty SAND: fine grained, dark grey.	D		
					ES 0.28-0.30 m							0.28-0.30: charcoal inclusions
			0.3	0.30								
			0.4									0.48-0.50: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229344
			0.5						Hole Terminated at 0.50 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 728

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229345
			0.1 0.2	*0.10*	ES 0.10-0.12 m PID 0.10 m 0.1 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.15: plastic debris observed FILL
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	M		0.28-0.30: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229346
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 729

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229347
			0.1 0.2	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste FILL
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	M		0.26-0.28: charcoal inclusions 0.28-0.30: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229348
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

TEST PIT: 730

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: No visual or olfactory evidence of contamination identified TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229349
			0.1 0.2	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	M		0.28-0.30: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229350
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 731

Sheet 1 of 1

Project:	Hunter River TESA	Position:	Area 7		
Location:	Hunter River High School	Coords:	151.7 m E -32.8 m N WGS84-56		
Client:	NSW Department of Education	Contractor:	HTS	Date:	23/1/2023
Job No.:	PS135419	Machine:	2T excavator Bucket Size: 300 mm toothless bucket	Logged:	GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229351
			0.1 0.2	0.10	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL 0.10-0.30: minor visual evidence of contamination - soil discolouration, charcoal, construction and demolition waste FILL
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	M		0.28-0.30: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229353
			0.3	0.30					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH

Date 28/3/2023

TEST PIT: 732

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 23/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: minor visual evidence of contamination - soil discolouration, construction and demolition waste TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229353
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	M		FILL
			0.2	*0.20*	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	M		0.28-0.30: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample 229354
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

WSP-AU 5.03.3 LIB.GLB Log IS AU BOREHOLE 3 HRHS TESA LOGS.GPJ <<DrawingFile>> 29/3/2023 00:01 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.03.3 2023-01-19 Prj: WSP 5.03.3 2023-01-19

TEST PIT: 733

Sheet 1 of 1

Project: Hunter River TESA
Location: Hunter River High School
Client: NSW Department of Education
Job No.: PS135419

Position: Area 7
Coords: 151.7 m E -32.8 m N WGS84-56
Contractor: HTS
Machine: 2T excavator Bucket Size: 300 mm toothless bucket

Date: 23/1/2023
Logged: GLB

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	*DEPTH* RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		Not Encountered	0.0				▨	SM	TOPSOIL and FILL Silty SAND: fine grained, brown.	D		TOPSOIL and FILL 0.00-0.30: minor visual evidence of contamination - soil discolouration TOPSOIL and FILL 0.08-0.10: 10L sieve AF/FA sample (no asbestos identified), asbestos NEPM sample sample
			0.1	*0.10*	ES 0.10-0.12 m PID 0.10 m 0 ppm		▨	SM	FILL Silty SAND: fine grained, pale brown.	D		FILL
			0.2									
				0.25	ES 0.28-0.30 m		▨	SM	FILL Silty SAND: fine grained, dark grey.	M		
			0.3	*0.30*					Hole Terminated at 0.30 m Target depth			

Comments

Checked JH
Date 28/3/2023

APPENDIX F

LABORATORY CERTIFICATES OF ANALYSIS

WSP

GRAVIMETRIC DETERMINATION AND QUANTIFICATION OF ASBESTOS IN SOIL

HUNTER RIVER HIGH SCHOOL

FEBRUARY 2023

GRAVIMETRIC DETERMINATION AND QUANTIFICATION OF ASBESTOS IN SOIL

HUNTER RIVER HIGH SCHOOL

WSP

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REV	DATE	DETAILS
0	10/02/23	Hunter River High School_NEW-PS135419-158998.pdf

	NAME	DATE	SIGNATURE
Prepared by:	Melanie Reed	10/02/23	
Reviewed by:	Clare Brockbank	10/02/23	CBrockbank

ABBREVIATIONS

A	Amosite Asbestos Detected
ACM	Asbestos Containing Material
AF	Asbestos Fines
C	Crocidolite Asbestos Detected
CH	Chrysotile Asbestos Detected
FA	Fibrous Asbestos
NAD	No Asbestos Detected
NEPM	National Environment Protection Measures
OF	Organic Fibres Detected
PLM	Polarised Light Microscopy
SMF	Synthetic Mineral Fibres Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS METHODOLOGY

AS 4964-2004 - Soils: Samples received by the laboratory are analysed in accordance with section 8.2.3 *Soil Samples* of Australian Standard (AS 4964-2004). Trace analysis is conducted in accordance with section 8.4 *Trace analysis criteria* of the standard. Asbestos analysis is conducted in accordance with the standard section 8.3.3 *Analytical criteria*, and follows methodology outlined in Appendix D *Simplified flowchart for bulk asbestos identification.*

Quantification of Asbestos in Soils: There is no accepted valid analytical method in Australia for estimating the concentration of asbestos in soils. NATA does not accredit facilities for the estimation of the concentration of ACM or free asbestos fibres in soils. This report is consistent with the analytical procedures and reporting recommendations in the Western Australia *Guidelines for the Assessment, Remediation, and Management of Asbestos-Contaminated Sites in Western Australia – May 2009* and Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater [National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)].

Percentages for asbestos content in materials and reporting limits of percentage weight for weight asbestos in soil are based on values outlined in Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater [National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)]. Non-Friable (ACM) weight is calculated based on the assumption of 15% asbestos by weight in non-friable ACM products used in Australia. Friable asbestos weight, including Fibrous Asbestos (AF) and Asbestos Fines (AF), is calculated based on the assumption of 100% asbestos by weight.

The reporting limit 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 reporting limit is not applicable to free fibres (Respirable Fibres). Loose respirable fibres are detected under criteria set by Australian Standard (AS 4964-2004), section 8.4 *Trace analysis criteria*, with an implied detection and reporting limit of 0.1g/kg.

METHOD SPECIFIC DEFINITION

- Asbestos Containing Materials (ACM) - comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin (e.g. asbestos fencing and vinyl tiles). This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.
- Fibrous Asbestos (FA) - comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded (friable) or was previously bonded and is now significantly degraded (crumbling).
- Asbestos Fines (AF) - AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

All calculations of percentage asbestos under this method are approximate and should be used as a guide only. Such results cannot be used in place of field evaluations.

These quantitative results are not covered by the scope of NATA accreditation.

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229247	SAMPLE: 229249	SAMPLE: 229250	SAMPLE: 229251	SAMPLE: 229252	SAMPLE: 229253	SAMPLE: 229254	SAMPLE: 229255	SAMPLE: 229256	SAMPLE: 229257
Total Soil Weight	g	1	713	732	765	717	694	664	712	712	698	660
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229258	SAMPLE: 229259	SAMPLE: 229260	SAMPLE: 229261	SAMPLE: 229262	SAMPLE: 229263	SAMPLE: 229264	SAMPLE: 229265	SAMPLE: 229266	SAMPLE: 229267
Total Soil Weight	g	1	783	709	731	712	637	630	675	691	707	773
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229268	SAMPLE: 229269	SAMPLE: 229270	SAMPLE: 229271	SAMPLE: 229273	SAMPLE: 229274	SAMPLE: 229275	SAMPLE: 229276	SAMPLE: 229277
Total Soil Weight	g	1	695	571	706	540	741	632	625	629	676
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	A	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229278	SAMPLE: 229279	SAMPLE: 229280	SAMPLE: 229281	SAMPLE: 229282	SAMPLE: 229283	SAMPLE: 229284	SAMPLE: 229285	SAMPLE: 229286	SAMPLE: 229287
Total Soil Weight	g	1	690	777	743	660	583	679	693	730	802	765
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229288	SAMPLE: 229290	SAMPLE: 229291	SAMPLE: 229292	SAMPLE: 229293	SAMPLE: 229294	SAMPLE: 229295	SAMPLE: 229296	SAMPLE: 229297	SAMPLE: 229298
Total Soil Weight	g	1	672	760	742	667	745	639	666	667	716	758
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229299	SAMPLE: 229300	SAMPLE: 229301	SAMPLE: 229302	SAMPLE: 229303	SAMPLE: 229304	SAMPLE: 229305	SAMPLE: 229306	SAMPLE: 229307	SAMPLE: 229308
Total Soil Weight	g	1	723	682	709	650	773	630	596	722	715	682
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229309	SAMPLE: 229310	SAMPLE: 229311	SAMPLE: 229312	SAMPLE: 229313	SAMPLE: 229314	SAMPLE: 229315	SAMPLE: 229316	SAMPLE: 229317	SAMPLE: 229318
Total Soil Weight	g	1	687	653	617	626	631	677	624	643	641	725
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229319	SAMPLE: 229320	SAMPLE: 229321	SAMPLE: 229322	SAMPLE: 229323	SAMPLE: 229324	SAMPLE: 229325	SAMPLE: 229326	SAMPLE: 229327	SAMPLE: 229328
Total Soil Weight	g	1	682	483	546	571	600	532	311	435	470	444
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229329	SAMPLE: 229330	SAMPLE: 229331	SAMPLE: 229332	SAMPLE: 229333	SAMPLE: 229334	SAMPLE: 229335	SAMPLE: 229336	SAMPLE: 229337	SAMPLE: 229338
Total Soil Weight	g	1	440	596	495	540	520	661	552	634	607	604
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229339	SAMPLE: 229340	SAMPLE: 229341	SAMPLE: 229342	SAMPLE: 229343	SAMPLE: 229344	SAMPLE: 229345	SAMPLE: 229346	SAMPLE: 229347	SAMPLE: 229348
Total Soil Weight	g	1	500	573	571	587	480	728	547	735	441	728
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229349	SAMPLE: 229350	SAMPLE: 229351	SAMPLE: 229352	SAMPLE: 229353	SAMPLE: 229354	SAMPLE: 229355	SAMPLE: 229357	SAMPLE: 229358	SAMPLE: 229359
Total Soil Weight	g	1	726	895	502	760	447	872	757	420	675	587
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229360	SAMPLE: 229361	SAMPLE: 229362	SAMPLE: 229363	SAMPLE: 229364	SAMPLE: 229365	SAMPLE: 229366	SAMPLE: 229367	SAMPLE: 229368	SAMPLE: 229369
Total Soil Weight	g	1	596	443	738	504	697	394	660	400	568	629
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 229370	SAMPLE: 229371	SAMPLE: 229372	SAMPLE: 229373	SAMPLE: 229374	SAMPLE: 229375	SAMPLE: 229376	SAMPLE: 229377	SAMPLE: 229378	SAMPLE: 229356
Total Soil Weight	g	1	826	608	665	573	710	793	573	574	768	696
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

APPENDIX A

AS 4964 LABORATORY CERTIFICATES

Certificate of Analysis

WSP Australia Pty Limited

WORLD RECOGNISED
ACCREDITATION

Level 3, 51-55 Bolton Street, Newcastle
- -
Telephone +61 2 49298331
Email ANZLab@wsp.com

ABN 80 078 004 798

Accredited for compliance with ISO/IEC:
17025 - Testing (No. 17199)
NCSI Certified Quality System ISO 9001

LOCATION:	**Hunter River High School**	**CERTIFICATE NO:**	**NEW-PS135419-158998**
CLIENT:	Department of Education - Hunter/Central Coast AMU	DATE\S SAMPLED:	18/01/2023 to 23/01/2023
CLIENT ADDRESS:	PO BOX 5658, Gateshead West NSW 2290	DATE RECEIVED:	24/01/2023
TELEPHONE:	0412 994 703	DATE ANALYSED:	10/02/2023
EMAIL:	cameron.johns15@det.nsw.edu.au	ORDER NUMBER:	N/A
CONTACT:	Cameron Johns	SAMPLED BY:	Stirling Walsh
		ANALYSED AT:	WSP Canberra Laboratory Level 2, 121 Marcus Clarke Street, Canberra ACT 2600

TEST METHOD: Qualitative identification of asbestos fibres in bulk and soil samples at WSP Corporate Laboratories by polarised light microscopy, including dispersion staining, in accordance with AS4964 (2004) Method for the qualitative identification of asbestos in bulk samples and WSP's Laboratory Procedure (LP3 - Identification of Asbestos Fibres). Trace analysis carried out on all non-homogenous samples.

Lab No	Sample ID	Location	Description	Dimensions	Identification Type
001	229247	TP301_0.1	Soil	713 g	OF, NAD[1]
002	229249	TP302_0.1	Soil	732 g	OF, NAD[1]
003	229250	TP303_0.1	Soil	765 g	OF, NAD[1]
004	229251	TP304_0.1	Soil	717 g	OF, NAD[1]
005	229252	TP305_0.1	Soil	694 g	OF, NAD[1]
006	229253	TP306_0.1	Soil	664 g	OF, NAD[1]
007	229254	TP307_0.1	Soil	712 g	OF, NAD[1]
008	229255	TP308_0.1	Soil	712 g	OF, NAD[1]
009	229256	TP309_0.1	Soil	698 g	OF, NAD[1]
010	229257	TP310_0.1	Soil	660 g	OF, NAD[1]
011	229258	TP311_0.1	Soil	783 g	OF, NAD[1]
012	229259	TP312_0.1	Soil	709 g	OF, NAD[1]
013	229260	TP313_0.1	Soil	731 g	OF, NAD[1]
014	229261	TP314_0.1	Soil	712 g	OF, NAD[1]
015	229262	TP315_0.1	Soil	637 g	OF, NAD[1]
016	229263	TP316_0.1	Soil	630 g	OF, NAD[1]
017	229264	TP317_0.1	Soil	675 g	OF, NAD[1]
018	229265	TP318_0.1	Soil	691 g	OF, NAD[1]
019	229266	TP319_0.1	Soil	707 g	OF, NAD[1]
020	229267	TP320_0.1	Soil	773 g	OF, NAD[1]
021	229268	TP201_0.1	Soil	695 g	OF, NAD[1]
022	229269	TP202_0.1	Soil	571 g	OF, NAD[1]
023	229270	TP203_0.1	Soil	706 g	OF, NAD[1]
024	229271	TP204_0.1	Soil	540 g	OF, NAD[1]
025	229273	TP205_0.1	Soil	741 g	OF, NAD[1]

Certificate of Analysis

LOCATION: **Hunter River High School** **CERTIFICATE NO:** **NEW-PS135419-158998**

Lab No	Sample ID	Location	Description	Dimensions	Identification Type
026	229274	TP206_0.1	Soil	632 g	OF, NAD[1]
027	229275	TP207_0.1	Soil	625 g	OF[1]
027A	229275		Loose Fibre Bundles	<0.001 g	A
028	229276	TP208_0.1	Soil	629 g	OF, NAD[1]
029	229277	TP209_0.1	Soil	676 g	OF, NAD[1]
030	229278	TP210_0.1	Soil	690 g	OF, NAD[1]
031	229279	TP401_0.1	Soil	777 g	OF, NAD[1]
032	229280	TP402_0.1	Soil	743 g	OF, NAD[1]
033	229281	TP403_0.1	Soil	660 g	OF, NAD[1]
034	229282	TP404_0.1	Soil	583 g	OF, NAD[1]
035	229283	TP405_0.1	Soil	679 g	OF, NAD[1]
036	229284	TP406_0.1	Soil	693 g	OF, NAD[1]
037	229285	TP407_0.1	Soil	730 g	OF, NAD[1]
038	229286	TP408_0.1	Soil	802 g	OF, NAD[1]
039	229287	TP409_0.1	Soil	765 g	OF, NAD[1]
040	229288	TP410_0.1	Soil	672 g	OF, NAD[1]
041	229290	TP411_0.1	Soil	760 g	OF, NAD[1]
042	229291	TP412_0.1	Soil	742 g	OF, NAD[1]
043	229292	TP413_0.1	Soil	667 g	OF, NAD[1]
044	229293	TP414_0.1	Soil	745 g	OF, NAD[1]
045	229294	TP415_0.1	Soil	639 g	OF, NAD[1]
046	229295	TP416_0.1	Soil	666 g	OF, NAD[1]
047	229296	TP417_0.1	Soil	667 g	OF, NAD[1]
048	229297	TP418_0.1	Soil	716 g	OF, NAD[1]
049	229298	TP419_0.1	Soil	758 g	OF, NAD[1]
050	229299	TP211_0.1	Soil	723 g	OF, NAD[1]
051	229300	TP212_0.1	Soil	682 g	OF, NAD[1]
052	229301	TP213_0.1	Soil	709 g	OF, NAD[1]
053	229302	TP214_0.1	Soil	650 g	OF, NAD[1]
054	229303	TP215_0.1	Soil	773 g	OF, NAD[1]
055	229304	TP216_0.1	Soil	630 g	OF, NAD[1]
056	229305	TP101_0.1	Soil	596 g	OF, NAD[1]
057	229306	TP102_0.1	Soil	722 g	OF, NAD[1]
058	229307	TP103_0.1	Soil	715 g	OF, NAD[1]
059	229308	TP104_0.1	Soil	682 g	OF, NAD[1]
060	229309	TP105_0.1	Soil	687 g	OF, NAD[1]

Certificate of Analysis

LOCATION: **Hunter River High School** **CERTIFICATE NO:** **NEW-PS135419-158998**

Lab No	Sample ID	Location	Description	Dimensions	Identification Type
061	229310	TP106_0.1	Soil	653 g	OF, NAD[1]
062	229311	TP107_0.1	Soil	617 g	OF, NAD[1]
063	229312	TP108_0.1	Soil	626 g	OF, NAD[1]
064	229313	TP109_0.1	Soil	631 g	OF, NAD[1]
065	229314	TP110_0.1	Soil	677 g	OF, NAD[1]
066	229315	TP111_0.1	Soil	624 g	OF, NAD[1]
067	229316	TP321_0.1	Soil	643 g	OF, NAD[1]
068	229317	TP713_0.1	Soil	641 g	OF, NAD[1]
069	229318	TP701_0.1	Soil	725 g	OF, NAD[1]
070	229319	TP702_0.1	Soil	682 g	OF, NAD[1]
071	229320	TP703_0.1	Soil	483 g	OF, NAD[1]
072	229321	TP704_0.1	Soil	546 g	OF, NAD[1]
073	229322	TP705_0.1	Soil	571 g	OF, NAD[1]
074	229323	TP706_0.1	Soil	600 g	OF, NAD[1]
075	229324	TP707_0.1	Soil	532 g	OF, NAD[1]
076	229325	TP708_0.1	Soil	311 g	OF, NAD[1]
077	229326	TP709_0.1	Soil	435 g	OF, NAD[1]
078	229327	TP710_0.1	Soil	470 g	OF, NAD[1]
079	229328	TP711_0.1	Soil	444 g	OF, NAD[1]
080	229329	TP712_0.1	Soil	440 g	OF, NAD[1]
081	229330	TP714_0.1	Soil	596 g	OF, NAD[1]
082	229331	TP715_0.1	Soil	495 g	OF, NAD[1]
083	229332	TP716_0.1	Soil	540 g	OF, NAD[1]
084	229333	TP717_0.1	Soil	520 g	OF, NAD[1]
085	229334	TP718_0.05	Soil	661 g	OF, NAD[1]
086	229335	TP719_0.05	Soil	552 g	OF, NAD[1]
087	229336	TP720_0.05	Soil	634 g	OF, NAD[1]
088	229337	TP721_0.1	Soil	607 g	OF, NAD[1]
089	229338	TP722_0.1	Soil	604 g	OF, NAD[1]
090	229339	TP723_0.1	Soil	500 g	OF, NAD[1]
091	229340	TP724_0.1	Soil	573 g	OF, NAD[1]
092	229341	TP725_0.1	Soil	571 g	OF, NAD[1]
093	229342	TP726_0.05	Soil	587 g	OF, NAD[1]
094	229343	TP727_0.05	Soil	480 g	OF, NAD[1]
095	229344	TP727_0.3	Soil	728 g	OF, NAD[1]
096	229345	TP728_0.05	Soil	547 g	OF, NAD[1]

Certificate of Analysis

LOCATION: **Hunter River High School** **CERTIFICATE NO:** **NEW-PS135419-158998**

Lab No	Sample ID	Location	Description	Dimensions	Identification Type
097	229346	TP728_0.3	Soil	735 g	OF, NAD[1]
098	229347	TP729_0.05	Soil	441 g	OF, NAD[1]
099	229348	TP729_0.3	Soil	728 g	OF, NAD[1]
100	229349	TP730_0.1	Soil	726 g	OF, NAD[1]
101	229350	TP730_0.3	Soil	895 g	OF, NAD[1]
102	229351	TP731_0.1	Soil	502 g	OF, NAD[1]
103	229352	TP731_0.3	Soil	760 g	OF, NAD[1]
104	229353	TP732_0.1	Soil	447 g	OF, NAD[1]
105	229354	TP732_0.3	Soil	872 g	OF, NAD[1]
106	229355	TP733_0.1	Soil	757 g	OF, NAD[1]
107	229357	TP112_0.1	Soil	420 g	OF, NAD[1]
108	229358	TP112_0.5	Soil	675 g	OF, NAD[1]
109	229359	TP113_0.05	Soil	587 g	OF, NAD[1]
110	229360	TP113_0.5	Soil	596 g	OF, NAD[1]
111	229361	TP114_0.1	Soil	443 g	OF, NAD[1]
112	229362	TP114_0.5	Soil	738 g	OF, NAD
113	229363	TP115_0.05	Soil	504 g	OF, NAD[1]
114	229364	TP115_0.5	Soil	697 g	OF, NAD[1]
115	229365	TP116_0.1	Soil	394 g	OF, NAD[1]
116	229366	TP116_0.5	Soil	660 g	OF, NAD[1]
117	229367	TP117_0.05	Soil	400 g	OF, NAD[1]
118	229368	TP117_0.5	Soil	568 g	OF, NAD[1]
119	229369	TP420_0.1	Soil	629 g	OF, NAD[1]
120	229370	TP420_0.5	Soil	826 g	OF, NAD[1]
121	229371	TP421_0.1	Soil	608 g	OF, NAD[1]
122	229372	TP421_0.5	Soil	665 g	OF, NAD[1]
123	229373	TP422_0.1	Soil	573 g	OF, NAD[1]
124	229374	TP422_0.5	Soil	710 g	OF, NAD[1]
125	229375	TP423_0.1	Soil	793 g	OF, NAD[1]
126	229376	TP423_0.5	Soil	573 g	OF, NAD[1]
127	229377	TP424_0.1	Soil	574 g	OF, NAD[1]
128	229378	TP424_0.5	Soil	768 g	OF, NAD[1]
129	229379	TP214_0.3Frag01	Fibre Cement Sheet	12.1 g	CH, OF
130	229356		Soil	696 g	OF, NAD[1]

Certificate of Analysis

LOCATION: **Hunter River High School**

CERTIFICATE NO: **NEW-PS135419-158998**

LEGEND:

NAD	-	No Asbestos Detected
CH	-	Chrysotile Asbestos Detected
A	-	Amosite Asbestos Detected
C	-	Crocidolite Asbestos Detected
UMF	-	Unknown Mineral Fibres Detected
SMF	-	Synthetic Mineral Fibres Detected
OF	-	Organic Fibres Detected
1	-	No asbestos detected at the reporting limit of 0.1 g/kg
2	-	Identification not possible due to adhering materials
3	-	Identification not possible due to degradation of fibres

Approved Identifier

Name: Bec McLean

Approved Signatory

Name: Melanie Reed

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.

Notes:
If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples, then confirmation by another independent analytical technique is advised due to the nature of the samples. UMF may or may not be asbestos, confirmation by another independent analytical technique is advised.
The results contained within this report relate only to the sample(s) submitted for testing.
Sampling is not covered by the scope of accreditation.
This document may not be reproduced except in full.

AUTHORISATION DATE

Friday, 10 February 2023

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

WSP Australia P/L Newcastle
PO Box 1162
Newcastle
NSW 2300

Attention: **Nick Mason**

Report **958898-S**
Project name Hunter River HS
Project ID PS135419
Received Date Jan 30, 2023

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP101_0.5** **Soil** **N23-Ja0043193** **Jan 20, 2023**	**TP102_0.5** **Soil** **N23-Ja0043194** **Jan 20, 2023**	**TP103_0.1** **Soil** **N23-Ja0043195** **Jan 20, 2023**	**TP103_0.2** **Soil** **N23-Ja0043196** **Jan 20, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77	79	74	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
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

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP101_0.5** **Soil** **N23-Ja0043193** **Jan 20, 2023**	**TP102_0.5** **Soil** **N23-Ja0043194** **Jan 20, 2023**	**TP103_0.1** **Soil** **N23-Ja0043195** **Jan 20, 2023**	**TP103_0.2** **Soil** **N23-Ja0043196** **Jan 20, 2023**
Polycyclic Aromatic Hydrocarbons						
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	118	113	110
p-Terphenyl-d14 (surr.)	1	%	74	101	103	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-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	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-HCH (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	0.5	mg/kg	< 0.5	-	< 0.5	-
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	%	99	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	72	-	106	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP101_0.5** **Soil** **N23-Ja0043193** **Jan 20, 2023**	**TP102_0.5** **Soil** **N23-Ja0043194** **Jan 20, 2023**	**TP103_0.1** **Soil** **N23-Ja0043195** **Jan 20, 2023**	**TP103_0.2** **Soil** **N23-Ja0043196** **Jan 20, 2023**
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	85	-	87	-
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	%	99	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	72	-	106	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	3.0	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	9.2	< 5
Copper	5	mg/kg	< 5	< 5	6.0	< 5
Lead	5	mg/kg	< 5	< 5	8.0	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	6.1	< 5
Zinc	5	mg/kg	< 5	< 5	25	9.8
Sample Properties						
% Moisture	1	%	19	21	8.1	3.0

Client Sample ID			[G01]**TP104_0.1**	**TP106_0.1**	**TP107_0.5**	**TP108_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043197**	**N23-Ja0043198**	**N23-Ja0043199**	**N23-Ja0043200**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
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	84
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	53
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	137
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	103	90	86	80
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.8	< 0.5	2.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.7	1.1	0.6	3.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.4	1.2	3.2
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	0.7
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.7	< 0.5	2.1
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.5	0.5	< 0.5	1.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.5	< 0.5	1.7
Benzo(k)fluoranthene	0.5	mg/kg	0.5	0.5	< 0.5	1.6
Chrysene	0.5	mg/kg	< 0.5	0.5	< 0.5	1.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.7	< 0.5	5.5
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	1.3
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.8	< 0.5	2.6
Pyrene	0.5	mg/kg	< 0.5	1.7	< 0.5	5.5
Total PAH*	0.5	mg/kg	1.0	6.9	< 0.5	26
2-Fluorobiphenyl (surr.)	1	%	118	105	110	150
p-Terphenyl-d14 (surr.)	1	%	110	94	103	135
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.5	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.5	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.5	< 0.05	-	-

Client Sample ID			G01TP104_0.1	TP106_0.1	TP107_0.5	TP108_0.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043197**	**N23-Ja0043198**	**N23-Ja0043199**	**N23-Ja0043200**
Date Sampled			Jan 20, 2023	Jan 20, 2023	Jan 20, 2023	Jan 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.5	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.5	0.28	-	-
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.5	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 10	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	0.28	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	0.28	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	114	75	-	-
Tetrachloro-m-xylene (surr.)	1	%	95	98	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.5	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.2	-	-
Coumaphos	2	mg/kg	< 5	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.5	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.5	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.5	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.5	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.5	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.5	< 0.2	-	-
EPN	0.2	mg/kg	< 0.5	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.5	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.5	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.5	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.5	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.5	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.5	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.5	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Monocrotophos	2	mg/kg	< 5	< 2	-	-
Naled	0.2	mg/kg	< 0.5	< 0.2	-	-
Omethoate	2	mg/kg	< 5	< 2	-	-
Phorate	0.2	mg/kg	< 0.5	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.2	-	-

Client Sample ID			[G01]**TP104_0.1**	**TP106_0.1**	**TP107_0.5**	**TP108_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043197**	**N23-Ja0043198**	**N23-Ja0043199**	**N23-Ja0043200**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Pyrazophos	0.2	mg/kg	< 0.5	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.5	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.5	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.5	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.5	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	89	80	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	114	75	-	-
Tetrachloro-m-xylene (surr.)	1	%	95	98	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	120
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	120
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.2	< 2	3.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	15	< 5	12
Copper	5	mg/kg	5.7	13	< 5	10
Lead	5	mg/kg	9.3	11	< 5	8.0
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	12	< 5	11
Zinc	5	mg/kg	39	58	< 5	49
Sample Properties						
% Moisture	1	%	4.0	8.0	3.2	7.8

Client Sample ID			[G01]**TP109_0.5**	**TP110_0.1**	**TP111_0.5**	**TP113_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043201**	**N23-Ja0043202**	**N23-Ja0043203**	**N23-Ja0043204**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 23, 2023**
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

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	G01 **TP109_0.5** **Soil** **N23-Ja0043201** **Jan 20, 2023**	**TP110_0.1** **Soil** **N23-Ja0043202** **Jan 20, 2023**	**TP111_0.5** **Soil** **N23-Ja0043203** **Jan 20, 2023**	**TP113_0.5** **Soil** **N23-Ja0043204** **Jan 23, 2023**
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	55	73	99
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene N02	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) N01	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) N04	20	mg/kg	< 20	< 20	< 20	< 20
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	90	113	81
p-Terphenyl-d14 (surr.)	1	%	106	128	147	124
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.5	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.5	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.5	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.5	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.5	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.5	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.5	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.5	-	-	< 0.05

Client Sample ID			[G01]**TP109_0.5**	**TP110_0.1**	**TP111_0.5**	**TP113_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043201**	**N23-Ja0043202**	**N23-Ja0043203**	**N23-Ja0043204**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 23, 2023**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	< 0.5	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 10	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	60	-	-	138
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	107
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	-	-	< 0.2
Bolstar	0.2	mg/kg	< 0.5	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.5	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	-	-	< 0.2
Coumaphos	2	mg/kg	< 5	-	-	< 2
Demeton-S	0.2	mg/kg	< 0.5	-	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.5	-	-	< 0.2
Diazinon	0.2	mg/kg	< 0.5	-	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.5	-	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.5	-	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.5	-	-	< 0.2
EPN	0.2	mg/kg	< 0.5	-	-	< 0.2
Ethion	0.2	mg/kg	< 0.5	-	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.5	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.5	-	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.5	-	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.5	-	-	< 0.2
Fenthion	0.2	mg/kg	< 0.5	-	-	< 0.2
Malathion	0.2	mg/kg	< 0.5	-	-	< 0.2
Merphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.5	-	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Monocrotophos	2	mg/kg	< 5	-	-	< 2
Naled	0.2	mg/kg	< 0.5	-	-	< 0.2
Omethoate	2	mg/kg	< 5	-	-	< 2
Phorate	0.2	mg/kg	< 0.5	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.5	-	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.5	-	-	< 0.2
Ronnel	0.2	mg/kg	< 0.5	-	-	< 0.2
Terbufos	0.2	mg/kg	< 0.5	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.5	-	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.5	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	59	-	-	119

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	G01TP109_0.5 **Soil** **N23-Ja0043201** **Jan 20, 2023**	**TP110_0.1** **Soil** **N23-Ja0043202** **Jan 20, 2023**	**TP111_0.5** **Soil** **N23-Ja0043203** **Jan 20, 2023**	**TP113_0.5** **Soil** **N23-Ja0043204** **Jan 23, 2023**
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	60	-	-	138
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.3	< 2	6.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	13	< 5	5.8
Copper	5	mg/kg	< 5	13	< 5	< 5
Lead	5	mg/kg	< 5	13	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	13	< 5	< 5
Zinc	5	mg/kg	< 5	55	7.2	< 5
Sample Properties						
% Moisture	1	%	2.3	7.9	3.5	18

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP114_0.1** **Soil** **N23-Ja0043205** **Jan 23, 2023**	**TP115_0.5** **Soil** **N23-Ja0043206** **Jan 23, 2023**	**TP116_0.1** **Soil** **N23-Ja0043207** **Jan 23, 2023**	**TP117_0.5** **Soil** **N23-Ja0043208** **Jan 23, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	71	71	79	105

Client Sample ID			**TP114_0.1**	**TP115_0.5**	**TP116_0.1**	**TP117_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043205**	**N23-Ja0043206**	**N23-Ja0043207**	**N23-Ja0043208**
Date Sampled			**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^N02	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)^N01	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)^N04	20	mg/kg	< 20	< 20	< 20	< 20
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	84	81	82
p-Terphenyl-d14 (surr.)	1	%	111	127	112	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-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	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-HCH (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	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP114_0.1** **Soil** **N23-Ja0043205** **Jan 23, 2023**	**TP115_0.5** **Soil** **N23-Ja0043206** **Jan 23, 2023**	**TP116_0.1** **Soil** **N23-Ja0043207** **Jan 23, 2023**	**TP117_0.5** **Soil** **N23-Ja0043208** **Jan 23, 2023**
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
Dibutylchlorendate (surr.)	1	%	-	150	-	146
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	98
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Bolstar	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Coumaphos	2	mg/kg	-	< 2	-	< 2
Demeton-S	0.2	mg/kg	-	< 0.2	-	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.2	-	< 0.2
Diazinon	0.2	mg/kg	-	< 0.2	-	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.2	-	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.2	-	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.2	-	< 0.2
EPN	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethion	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fensulfothion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fenthion	0.2	mg/kg	-	< 0.2	-	< 0.2
Malathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Merphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Monocrotophos	2	mg/kg	-	< 2	-	< 2
Naled	0.2	mg/kg	-	< 0.2	-	< 0.2
Omethoate	2	mg/kg	-	< 2	-	< 2
Phorate	0.2	mg/kg	-	< 0.2	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.2	-	< 0.2
Ronnel	0.2	mg/kg	-	< 0.2	-	< 0.2
Terbufos	0.2	mg/kg	-	< 0.2	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.2	-	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.2	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	132	-	133
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			**TP114_0.1**	**TP115_0.5**	**TP116_0.1**	**TP117_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043205**	**N23-Ja0043206**	**N23-Ja0043207**	**N23-Ja0043208**
Date Sampled			**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**
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
Dibutylchlorendate (surr.)	1	%	-	150	-	146
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	98
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	4.6	2.2	4.4	3.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	< 5	16	< 5
Copper	5	mg/kg	16	< 5	18	< 5
Lead	5	mg/kg	14	< 5	15	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	< 5	14	< 5
Zinc	5	mg/kg	92	< 5	82	< 5
Sample Properties						
% Moisture	1	%	15	7.7	14	4.2

Client Sample ID			**TP201_0.1**	**TP203_0.5**	**TP205_0.1**	**TP205_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043209**	**N23-Ja0043210**	**N23-Ja0043211**	**N23-Ja0043212**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
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	58	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	58	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	99	87	63	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH >C10-C16 less Naphthalene (F2)^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)^{N04}	20	mg/kg	< 20	< 20	< 20	-

Client Sample ID			**TP201_0.1**	**TP203_0.5**	**TP205_0.1**	**TP205_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043209**	**N23-Ja0043210**	**N23-Ja0043211**	**N23-Ja0043212**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
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	%	77	100	^{Q09}INT	-
p-Terphenyl-d14 (surr.)	1	%	92	101	51	-
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-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	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-HCH (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	0.5	mg/kg	< 0.5	-	< 0.5	-
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	%	99	-	54	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	^{Q09}INT	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP201_0.1** **Soil** **N23-Ja0043209** **Jan 18, 2023**	**TP203_0.5** **Soil** **N23-Ja0043210** **Jan 18, 2023**	**TP205_0.1** **Soil** **N23-Ja0043211** **Jan 18, 2023**	**TP205_0.5** **Soil** **N23-Ja0043212** **Jan 18, 2023**
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	77	-	^{Q09}INT	-
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	%	99	-	54	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	^{Q09}INT	-

Client Sample ID			**TP201_0.1**	**TP203_0.5**	**TP205_0.1**	**TP205_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043209**	**N23-Ja0043210**	**N23-Ja0043211**	**N23-Ja0043212**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-
Heavy Metals						
Arsenic	2	mg/kg	2.2	< 2	< 2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	8.3	< 5	7.4	-
Copper	5	mg/kg	9.2	< 5	11	-
Lead	5	mg/kg	12	< 5	9.2	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	7.9	< 5	6.7	-
Zinc	5	mg/kg	43	< 5	47	-
Sample Properties						
% Moisture	1	%	20	21	31	3.9
% Clay	1	%	-	-	-	< 1
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	< 10
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	-	7.4
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	0.80

Client Sample ID			**TP207_0.5**	**TP209_0.1**	**TP210_0.5**	[G01]**TP211_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043213**	**N23-Ja0043214**	**N23-Ja0043215**	**N23-Ja0043216**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 25, 2023**
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	52	< 50	130
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	59
TRH C10-C36 (Total)	50	mg/kg	< 50	52	< 50	189
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	95	83	60	58
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	TP207_0.5 **Soil** **N23-Ja0043213** Jan 18, 2023	TP209_0.1 **Soil** **N23-Ja0043214** Jan 18, 2023	TP210_0.5 **Soil** **N23-Ja0043215** Jan 18, 2023	G01TP211_0.1 **Soil** **N23-Ja0043216** Jan 25, 2023
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	0.7	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)fluorantheneN07	0.5	mg/kg	< 0.5	0.7	< 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	0.6
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	0.9
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	0.9
Total PAH*	0.5	mg/kg	< 0.5	0.7	< 0.5	2.4
2-Fluorobiphenyl (surr.)	1	%	113	106	107	87
p-Terphenyl-d14 (surr.)	1	%	113	93	114	85
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.5
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.5
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.5
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	85	-	73
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	73

Client Sample ID			**TP207_0.5**	**TP209_0.1**	**TP210_0.5**	G01**TP211_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043213**	**N23-Ja0043214**	**N23-Ja0043215**	**N23-Ja0043216**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 25, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Bolstar	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Coumaphos	2	mg/kg	-	< 2	-	< 5
Demeton-S	0.2	mg/kg	-	< 0.2	-	< 0.5
Demeton-O	0.2	mg/kg	-	< 0.2	-	< 0.5
Diazinon	0.2	mg/kg	-	< 0.2	-	< 0.5
Dichlorvos	0.2	mg/kg	-	< 0.2	-	< 0.5
Dimethoate	0.2	mg/kg	-	< 0.2	-	< 0.5
Disulfoton	0.2	mg/kg	-	< 0.2	-	< 0.5
EPN	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethion	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethoprop	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fenitrothion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fensulfothion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fenthion	0.2	mg/kg	-	< 0.2	-	< 0.5
Malathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Merphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Methyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Mevinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Monocrotophos	2	mg/kg	-	< 2	-	< 5
Naled	0.2	mg/kg	-	< 0.2	-	< 0.5
Omethoate	2	mg/kg	-	< 2	-	< 5
Phorate	0.2	mg/kg	-	< 0.2	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Pyrazophos	0.2	mg/kg	-	< 0.2	-	< 0.5
Ronnel	0.2	mg/kg	-	< 0.2	-	< 0.5
Terbufos	0.2	mg/kg	-	< 0.2	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Tokuthion	0.2	mg/kg	-	< 0.2	-	< 0.5
Trichloronate	0.2	mg/kg	-	< 0.2	-	< 0.5
Triphenylphosphate (surr.)	1	%	-	90	-	74
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	85	-	73
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	73

Client Sample ID			**TP207_0.5**	**TP209_0.1**	**TP210_0.5**	G01**TP211_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043213**	**N23-Ja0043214**	**N23-Ja0043215**	**N23-Ja0043216**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 25, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	160
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	160
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.6	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.3	< 5	< 5
Copper	5	mg/kg	< 5	6.6	< 5	< 5
Lead	5	mg/kg	< 5	14	< 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	38	< 5	19
Sample Properties						
% Moisture	1	%	3.4	30	3.8	2.4

Client Sample ID			**TP213_0.5**	**TP214_0.1**	**TP215_0.5**	G01**TP301_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043217**	**N23-Ja0043218**	**N23-Ja0043219**	**N23-Ja0043220**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 25, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	71	99	67	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene N02	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) N01	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) N04	20	mg/kg	< 20	< 20	< 20	< 20
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			**TP213_0.5**	**TP214_0.1**	**TP215_0.5**	G01**TP301_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043217**	**N23-Ja0043218**	**N23-Ja0043219**	**N23-Ja0043220**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 25, 2023**
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)fluorantheneN07	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	106	101	115
p-Terphenyl-d14 (surr.)	1	%	122	109	108	114
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.5
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.5
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.5
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	90	-	84
Tetrachloro-m-xylene (surr.)	1	%	-	91	-	91
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Bolstar	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	< 0.5

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP213_0.5** **Soil** **N23-Ja0043217** **Jan 19, 2023**	**TP214_0.1** **Soil** **N23-Ja0043218** **Jan 19, 2023**	**TP215_0.5** **Soil** **N23-Ja0043219** **Jan 19, 2023**	G01**TP301_0.1** **Soil** **N23-Ja0043220** **Jan 25, 2023**
Organophosphorus Pesticides						
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Coumaphos	2	mg/kg	-	< 2	-	< 5
Demeton-S	0.2	mg/kg	-	< 0.2	-	< 0.5
Demeton-O	0.2	mg/kg	-	< 0.2	-	< 0.5
Diazinon	0.2	mg/kg	-	< 0.2	-	< 0.5
Dichlorvos	0.2	mg/kg	-	< 0.2	-	< 0.5
Dimethoate	0.2	mg/kg	-	< 0.2	-	< 0.5
Disulfoton	0.2	mg/kg	-	< 0.2	-	< 0.5
EPN	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethion	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethoprop	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fenitrothion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fensulfothion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fenthion	0.2	mg/kg	-	< 0.2	-	< 0.5
Malathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Merphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Methyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Mevinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Monocrotophos	2	mg/kg	-	< 2	-	< 5
Naled	0.2	mg/kg	-	< 0.2	-	< 0.5
Omethoate	2	mg/kg	-	< 2	-	< 5
Phorate	0.2	mg/kg	-	< 0.2	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Pyrazophos	0.2	mg/kg	-	< 0.2	-	< 0.5
Ronnel	0.2	mg/kg	-	< 0.2	-	< 0.5
Terbufos	0.2	mg/kg	-	< 0.2	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Tokuthion	0.2	mg/kg	-	< 0.2	-	< 0.5
Trichloronate	0.2	mg/kg	-	< 0.2	-	< 0.5
Triphenylphosphate (surr.)	1	%	-	87	-	101
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	90	-	84
Tetrachloro-m-xylene (surr.)	1	%	-	91	-	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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

Client Sample ID			**TP213_0.5**	**TP214_0.1**	**TP215_0.5**	G01**TP301_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043217**	**N23-Ja0043218**	**N23-Ja0043219**	**N23-Ja0043220**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 25, 2023**
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	< 5
Copper	5	mg/kg	< 5	6.7	< 5	< 5
Lead	5	mg/kg	< 5	11	< 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	51	< 5	9.1
Sample Properties						
% Moisture	1	%	13	8.5	20	1.3

Client Sample ID			**TP302_0.5**	**TP304_0.5**	**TP305_0.1**	**TP307_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043221**	**N23-Ja0043222**	**N23-Ja0043223**	**N23-Ja0043224**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	74	60	94	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	TP302_0.5 Soil N23-Ja0043221 Jan 18, 2023	TP304_0.5 Soil N23-Ja0043222 Jan 18, 2023	TP305_0.1 Soil N23-Ja0043223 Jan 18, 2023	TP307_0.1 Soil N23-Ja0043224 Jan 18, 2023
Polycyclic Aromatic Hydrocarbons						
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	%	96	104	105	73
p-Terphenyl-d14 (surr.)	1	%	98	84	103	109
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-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	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-HCH (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	0.5	mg/kg	-	< 0.5	-	-
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	-	-
Dibutylchlorendate (surr.)	1	%	-	73	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	94	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-

Client Sample ID			**TP302_0.5**	**TP304_0.5**	**TP305_0.1**	**TP307_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043221**	**N23-Ja0043222**	**N23-Ja0043223**	**N23-Ja0043224**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	84	-	-
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	-	-
Dibutylchlorendate (surr.)	1	%	-	73	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	94	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
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	11	32
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	8.1	< 5	29	87

Client Sample ID			TP302_0.5	TP304_0.5	TP305_0.1	TP307_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N23-Ja0043221	N23-Ja0043222	N23-Ja0043223	N23-Ja0043224
Date Sampled			Jan 18, 2023	Jan 18, 2023	Jan 18, 2023	Jan 18, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	5.9	3.0	3.6	16

Client Sample ID			TP308_0.5	TP309_0.1	TP310_0.5	TP311_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N23-Ja0043225	N23-Ja0043226	N23-Ja0043227	N23-Ja0043228
Date Sampled			Jan 18, 2023	Jan 18, 2023	Jan 18, 2023	Jan 18, 2023
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	81	96	94	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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	0.9	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	%	100	116	98	104
p-Terphenyl-d14 (surr.)	1	%	87	102	89	87

Client Sample ID			**TP308_0.5**	**TP309_0.1**	**TP310_0.5**	**TP311_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043225**	**N23-Ja0043226**	**N23-Ja0043227**	**N23-Ja0043228**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
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-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	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-HCH (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	0.5	mg/kg	< 0.5	-	< 0.5	-
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	%	87	-	92	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	93	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	TP308_0.5 Soil N23-Ja0043225 Jan 18, 2023	TP309_0.1 Soil N23-Ja0043226 Jan 18, 2023	TP310_0.5 Soil N23-Ja0043227 Jan 18, 2023	TP311_0.1 Soil N23-Ja0043228 Jan 18, 2023
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	99	-	102	-
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	%	87	-	92	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	93	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
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	24	< 5	18
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	26	< 5	16
Sample Properties						
% Moisture	1	%	12	5.7	2.1	4.4
% Clay	1	%	-	-	1.2	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	30	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	6.7	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	1.1	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	TP313_0.1 Soil N23-Ja0043229 Jan 18, 2023	TP314_0.5 Soil N23-Ja0043230 Jan 18, 2023	TP315_0.1 Soil N23-Ja0043231 Jan 25, 2023	TP316_0.5 Soil N23-Ja0043232 Jan 18, 2023
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	28	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	68	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	96	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	99	79	71
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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	%	101	97	98	83
p-Terphenyl-d14 (surr.)	1	%	87	85	85	72
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-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP313_0.1** **Soil** **N23-Ja0043229** **Jan 18, 2023**	**TP314_0.5** **Soil** **N23-Ja0043230** **Jan 18, 2023**	**TP315_0.1** **Soil** **N23-Ja0043231** **Jan 25, 2023**	**TP316_0.5** **Soil** **N23-Ja0043232** **Jan 18, 2023**
Organochlorine Pesticides						
d-HCH	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-HCH (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	0.5	mg/kg	-	< 0.5	< 0.5	-
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	%	-	94	108	-
Tetrachloro-m-xylene (surr.)	1	%	-	93	93	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Coumaphos	2	mg/kg	-	< 2	< 2	-
Demeton-S	0.2	mg/kg	-	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	-	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	-	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	-	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	-	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	-	< 0.2	< 0.2	-
EPN	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fensulfothion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	-	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	-	< 2	< 2	-
Naled	0.2	mg/kg	-	< 0.2	< 0.2	-
Omethoate	2	mg/kg	-	< 2	< 2	-
Phorate	0.2	mg/kg	-	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP313_0.1** **Soil** **N23-Ja0043229** **Jan 18, 2023**	**TP314_0.5** **Soil** **N23-Ja0043230** **Jan 18, 2023**	**TP315_0.1** **Soil** **N23-Ja0043231** **Jan 25, 2023**	**TP316_0.5** **Soil** **N23-Ja0043232** **Jan 18, 2023**
Organophosphorus Pesticides						
Pyrazophos	0.2	mg/kg	-	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	-	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	-	< 0.2	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	-	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	-	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	107	117	-
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	%	-	94	108	-
Tetrachloro-m-xylene (surr.)	1	%	-	93	93	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	8.5	3.2	4.2	3.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.6	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	13	< 5	9.5	5.1
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	22	< 5	20	< 5
Sample Properties						
% Moisture	1	%	15	2.3	4.7	2.0

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP317_0.1** **Soil** **N23-Ja0043233** **Jan 18, 2023**	[G01]**TP318_0.5** **Soil** **N23-Ja0043234** **Jan 18, 2023**	**TP319_0.1** **Soil** **N23-Ja0043235** **Jan 18, 2023**	**TP320_0.5** **Soil** **N23-Ja0043236** **Jan 18, 2023**
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

Client Sample ID			**TP317_0.1**	[G01]**TP318_0.5**	**TP319_0.1**	**TP320_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043233**	**N23-Ja0043234**	**N23-Ja0043235**	**N23-Ja0043236**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	89	87	87	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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	82	80	104
p-Terphenyl-d14 (surr.)	1	%	132	88	83	108
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	-
a-HCH	0.05	mg/kg	-	< 0.5	-	-
Aldrin	0.05	mg/kg	-	< 0.5	-	-
b-HCH	0.05	mg/kg	-	< 0.5	-	-
d-HCH	0.05	mg/kg	-	< 0.5	-	-
Dieldrin	0.05	mg/kg	-	< 0.5	-	-
Endosulfan I	0.05	mg/kg	-	< 0.5	-	-
Endosulfan II	0.05	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	-
Endrin	0.05	mg/kg	-	< 0.5	-	-

Client Sample ID			**TP317_0.1**	^{G01}**TP318_0.5**	**TP319_0.1**	**TP320_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043233**	**N23-Ja0043234**	**N23-Ja0043235**	**N23-Ja0043236**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	-
Endrin ketone	0.05	mg/kg	-	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	-
Heptachlor	0.05	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	-
Methoxychlor	0.05	mg/kg	-	< 0.5	-	-
Toxaphene	0.5	mg/kg	-	< 10	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	83	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	76	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.5	-	-
Bolstar	0.2	mg/kg	-	< 0.5	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.5	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.5	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.5	-	-
Coumaphos	2	mg/kg	-	< 5	-	-
Demeton-S	0.2	mg/kg	-	< 0.5	-	-
Demeton-O	0.2	mg/kg	-	< 0.5	-	-
Diazinon	0.2	mg/kg	-	< 0.5	-	-
Dichlorvos	0.2	mg/kg	-	< 0.5	-	-
Dimethoate	0.2	mg/kg	-	< 0.5	-	-
Disulfoton	0.2	mg/kg	-	< 0.5	-	-
EPN	0.2	mg/kg	-	< 0.5	-	-
Ethion	0.2	mg/kg	-	< 0.5	-	-
Ethoprop	0.2	mg/kg	-	< 0.5	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.5	-	-
Fenitrothion	0.2	mg/kg	-	< 0.5	-	-
Fensulfothion	0.2	mg/kg	-	< 0.5	-	-
Fenthion	0.2	mg/kg	-	< 0.5	-	-
Malathion	0.2	mg/kg	-	< 0.5	-	-
Merphos	0.2	mg/kg	-	< 0.5	-	-
Methyl parathion	0.2	mg/kg	-	< 0.5	-	-
Mevinphos	0.2	mg/kg	-	< 0.5	-	-
Monocrotophos	2	mg/kg	-	< 5	-	-
Naled	0.2	mg/kg	-	< 0.5	-	-
Omethoate	2	mg/kg	-	< 5	-	-
Phorate	0.2	mg/kg	-	< 0.5	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.5	-	-
Pyrazophos	0.2	mg/kg	-	< 0.5	-	-
Ronnel	0.2	mg/kg	-	< 0.5	-	-
Terbufos	0.2	mg/kg	-	< 0.5	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.5	-	-
Tokuthion	0.2	mg/kg	-	< 0.5	-	-
Trichloronate	0.2	mg/kg	-	< 0.5	-	-
Triphenylphosphate (surr.)	1	%	-	68	-	-

Client Sample ID			**TP317_0.1**	**G01TP318_0.5**	**TP319_0.1**	**TP320_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043233**	**N23-Ja0043234**	**N23-Ja0043235**	**N23-Ja0043236**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 18, 2023**
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	-
Aroclor-1221	0.1	mg/kg	-	< 1	-	-
Aroclor-1232	0.1	mg/kg	-	< 1	-	-
Aroclor-1242	0.1	mg/kg	-	< 1	-	-
Aroclor-1248	0.1	mg/kg	-	< 1	-	-
Aroclor-1254	0.1	mg/kg	-	< 1	-	-
Aroclor-1260	0.1	mg/kg	-	< 1	-	-
Total PCB*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	83	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	76	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	4.1
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	17	< 5	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	20	5.3	23	< 5
Sample Properties						
% Moisture	1	%	1.9	6.2	5.8	6.9

Client Sample ID			**TP321_0.1**	**G01TP401_0.1**	**TP403_0.1**	**TP404_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043237**	**N23-Ja0043238**	**N23-Ja0043239**	**N23-Ja0043240**
Date Sampled			**Jan 18, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
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	500	190	< 50	< 50
TRH C29-C36	50	mg/kg	340	110	59	< 50
TRH C10-C36 (Total)	50	mg/kg	840	300	59	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	86	77	92	73

Client Sample ID			**TP321_0.1**	^{G01}**TP401_0.1**	**TP403_0.1**	**TP404_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043237**	**N23-Ja0043238**	**N23-Ja0043239**	**N23-Ja0043240**
Date Sampled			**Jan 18, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	37	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	37	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	37	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	1.7	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	15	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	22	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene^{N07}	0.5	mg/kg	30	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	20	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	31	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	29	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	5.6	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	44	< 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	18	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.4	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	43	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	260	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	114	81	98	94
p-Terphenyl-d14 (surr.)	1	%	115	82	105	100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.5	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.5	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.5	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.5	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.5	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.5	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.5	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.5	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.5	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.5	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.5	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 10	-	< 0.5

Client Sample ID			TP321_0.1	^{G01}TP401_0.1	TP403_0.1	TP404_0.5
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043237**	**N23-Ja0043238**	**N23-Ja0043239**	**N23-Ja0043240**
Date Sampled			Jan 18, 2023	Jan 19, 2023	Jan 19, 2023	Jan 19, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	66	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	63	-	79
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.5	-	< 0.2
Bolstar	0.2	mg/kg	-	< 0.5	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.5	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.5	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.5	-	< 0.2
Coumaphos	2	mg/kg	-	< 5	-	< 2
Demeton-S	0.2	mg/kg	-	< 0.5	-	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.5	-	< 0.2
Diazinon	0.2	mg/kg	-	< 0.5	-	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.5	-	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.5	-	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.5	-	< 0.2
EPN	0.2	mg/kg	-	< 0.5	-	< 0.2
Ethion	0.2	mg/kg	-	< 0.5	-	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.5	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.5	-	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.5	-	< 0.2
Fensulfothion	0.2	mg/kg	-	< 0.5	-	< 0.2
Fenthion	0.2	mg/kg	-	< 0.5	-	< 0.2
Malathion	0.2	mg/kg	-	< 0.5	-	< 0.2
Merphos	0.2	mg/kg	-	< 0.5	-	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.5	-	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.5	-	< 0.2
Monocrotophos	2	mg/kg	-	< 5	-	< 2
Naled	0.2	mg/kg	-	< 0.5	-	< 0.2
Omethoate	2	mg/kg	-	< 5	-	< 2
Phorate	0.2	mg/kg	-	< 0.5	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.5	-	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.5	-	< 0.2
Ronnel	0.2	mg/kg	-	< 0.5	-	< 0.2
Terbufos	0.2	mg/kg	-	< 0.5	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.5	-	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.5	-	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.5	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	67	-	76
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 1	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 1	-	< 0.1

Client Sample ID			**TP321_0.1**	[G01]**TP401_0.1**	**TP403_0.1**	**TP404_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043237**	**N23-Ja0043238**	**N23-Ja0043239**	**N23-Ja0043240**
Date Sampled			**Jan 18, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	-	< 1	-	< 0.1
Total PCB*	0.1	mg/kg	-	< 1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	66	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	63	-	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	740	260	< 100	< 100
TRH >C34-C40	100	mg/kg	250	160	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	990	420	< 100	< 100
Heavy Metals						
Arsenic	2	mg/kg	2.9	< 2	2.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.1	< 5	8.8	< 5
Copper	5	mg/kg	15	6.0	9.3	< 5
Lead	5	mg/kg	53	18	23	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.4	< 5	6.4	< 5
Zinc	5	mg/kg	97	29	34	< 5
Sample Properties						
% Moisture	1	%	30	17	11	4.8

Client Sample ID			**TP405_0.1**	**TP406_0.5**	**TP408_0.5**	**TP409_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043241**	**N23-Ja0043242**	**N23-Ja0043243**	**N23-Ja0043244**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	107	92	101	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			**TP405_0.1**	**TP406_0.5**	**TP408_0.5**	**TP409_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043241**	**N23-Ja0043242**	**N23-Ja0043243**	**N23-Ja0043244**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
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	%	100	80	97	79
p-Terphenyl-d14 (surr.)	1	%	108	88	102	83
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-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	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-HCH (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	0.5	mg/kg	-	< 0.5	-	< 0.5
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	%	-	84	-	82
Tetrachloro-m-xylene (surr.)	1	%	-	73	-	71

Client Sample ID			**TP405_0.1**	**TP406_0.5**	**TP408_0.5**	**TP409_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043241**	**N23-Ja0043242**	**N23-Ja0043243**	**N23-Ja0043244**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Bolstar	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Coumaphos	2	mg/kg	-	< 2	-	< 2
Demeton-S	0.2	mg/kg	-	< 0.2	-	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.2	-	< 0.2
Diazinon	0.2	mg/kg	-	< 0.2	-	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.2	-	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.2	-	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.2	-	< 0.2
EPN	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethion	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fensulfothion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fenthion	0.2	mg/kg	-	< 0.2	-	< 0.2
Malathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Merphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Monocrotophos	2	mg/kg	-	< 2	-	< 2
Naled	0.2	mg/kg	-	< 0.2	-	< 0.2
Omethoate	2	mg/kg	-	< 2	-	< 2
Phorate	0.2	mg/kg	-	< 0.2	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.2	-	< 0.2
Ronnel	0.2	mg/kg	-	< 0.2	-	< 0.2
Terbufos	0.2	mg/kg	-	< 0.2	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.2	-	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.2	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	75	-	70
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	%	-	84	-	82
Tetrachloro-m-xylene (surr.)	1	%	-	73	-	71

Client Sample ID			**TP405_0.1**	**TP406_0.5**	**TP408_0.5**	**TP409_0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043241**	**N23-Ja0043242**	**N23-Ja0043243**	**N23-Ja0043244**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	9.2	9.5	6.2	3.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.5	6.6	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	14	< 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	23	< 5	< 5	< 5
Sample Properties						
% Moisture	1	%	3.5	4.9	2.0	8.3

Client Sample ID			**TP410_0.1**	**TP411_0.1**	**TP411_0.5**	[G01]**TP412_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043245**	**N23-Ja0043246**	**N23-Ja0043247**	**N23-Ja0043248**
Date Sampled			**Jan 25, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
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	200	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	55	< 50	< 50	54
TRH C10-C36 (Total)	50	mg/kg	255	< 50	< 50	54
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98	89	88	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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 **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP410_0.1** **Soil** **N23-Ja0043245** **Jan 25, 2023**	**TP411_0.1** **Soil** **N23-Ja0043246** **Jan 19, 2023**	**TP411_0.5** **Soil** **N23-Ja0043247** **Jan 19, 2023**	G01**TP412_0.1** **Soil** **N23-Ja0043248** **Jan 19, 2023**
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)fluorantheneN07	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	110	60	128
p-Terphenyl-d14 (surr.)	1	%	95	109	64	114
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.5
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.5
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.5
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	94	-	129
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	107
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Bolstar	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	< 0.5

Client Sample ID			**TP410_0.1**	**TP411_0.1**	**TP411_0.5**	G01**TP412_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043245**	**N23-Ja0043246**	**N23-Ja0043247**	**N23-Ja0043248**
Date Sampled			**Jan 25, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Coumaphos	2	mg/kg	-	< 2	-	< 5
Demeton-S	0.2	mg/kg	-	< 0.2	-	< 0.5
Demeton-O	0.2	mg/kg	-	< 0.2	-	< 0.5
Diazinon	0.2	mg/kg	-	< 0.2	-	< 0.5
Dichlorvos	0.2	mg/kg	-	< 0.2	-	< 0.5
Dimethoate	0.2	mg/kg	-	< 0.2	-	< 0.5
Disulfoton	0.2	mg/kg	-	< 0.2	-	< 0.5
EPN	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethion	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethoprop	0.2	mg/kg	-	< 0.2	-	< 0.5
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fenitrothion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fensulfothion	0.2	mg/kg	-	< 0.2	-	< 0.5
Fenthion	0.2	mg/kg	-	< 0.2	-	< 0.5
Malathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Merphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Methyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.5
Mevinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Monocrotophos	2	mg/kg	-	< 2	-	< 5
Naled	0.2	mg/kg	-	< 0.2	-	< 0.5
Omethoate	2	mg/kg	-	< 2	-	< 5
Phorate	0.2	mg/kg	-	< 0.2	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.5
Pyrazophos	0.2	mg/kg	-	< 0.2	-	< 0.5
Ronnel	0.2	mg/kg	-	< 0.2	-	< 0.5
Terbufos	0.2	mg/kg	-	< 0.2	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	< 0.5
Tokuthion	0.2	mg/kg	-	< 0.2	-	< 0.5
Trichloronate	0.2	mg/kg	-	< 0.2	-	< 0.5
Triphenylphosphate (surr.)	1	%	-	78	-	85
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	-	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	94	-	129
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	230	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	230	< 100	< 100	< 100

Client Sample ID			**TP410_0.1**	**TP411_0.1**	**TP411_0.5**	[G01]**TP412_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043245**	**N23-Ja0043246**	**N23-Ja0043247**	**N23-Ja0043248**
Date Sampled			**Jan 25, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.2	5.9	7.6	6.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.4	8.5	9.1
Copper	5	mg/kg	< 5	< 5	< 5	6.5
Lead	5	mg/kg	7.7	6.1	< 5	19
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	19	12	< 5	41
Sample Properties						
% Moisture	1	%	3.7	2.6	2.2	3.1

Client Sample ID			[G01]**TP413_0.5**	**TP414_0.1**	**TP415_0.5**	**TP416_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043249**	**N23-Ja0043250**	**N23-Ja0043251**	**N23-Ja0043252**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	105	88	59	94
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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

Client Sample ID			[G01]**TP413_0.5**	**TP414_0.1**	**TP415_0.5**	**TP416_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043249**	**N23-Ja0043250**	**N23-Ja0043251**	**N23-Ja0043252**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	124	98	92	96
p-Terphenyl-d14 (surr.)	1	%	110	109	102	99
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.5	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.5	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.5	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.5	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.5	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.5	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.5	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.5	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 10	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	96	-	-	71
Tetrachloro-m-xylene (surr.)	1	%	105	-	-	84
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	-	-	< 0.2
Bolstar	0.2	mg/kg	< 0.5	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.5	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	-	-	< 0.2
Coumaphos	2	mg/kg	< 5	-	-	< 2
Demeton-S	0.2	mg/kg	< 0.5	-	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.5	-	-	< 0.2
Diazinon	0.2	mg/kg	< 0.5	-	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.5	-	-	< 0.2

Client Sample ID			^{G01}TP413_0.5	TP414_0.1	TP415_0.5	TP416_0.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043249**	**N23-Ja0043250**	**N23-Ja0043251**	**N23-Ja0043252**
Date Sampled			**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	< 0.5	-	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.5	-	-	< 0.2
EPN	0.2	mg/kg	< 0.5	-	-	< 0.2
Ethion	0.2	mg/kg	< 0.5	-	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.5	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.5	-	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.5	-	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.5	-	-	< 0.2
Fenthion	0.2	mg/kg	< 0.5	-	-	< 0.2
Malathion	0.2	mg/kg	< 0.5	-	-	< 0.2
Merphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.5	-	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Monocrotophos	2	mg/kg	< 5	-	-	< 2
Naled	0.2	mg/kg	< 0.5	-	-	< 0.2
Omethoate	2	mg/kg	< 5	-	-	< 2
Phorate	0.2	mg/kg	< 0.5	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.5	-	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.5	-	-	< 0.2
Ronnel	0.2	mg/kg	< 0.5	-	-	< 0.2
Terbufos	0.2	mg/kg	< 0.5	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.5	-	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.5	-	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.5	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	75	-	-	72
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	96	-	-	71
Tetrachloro-m-xylene (surr.)	1	%	105	-	-	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	6.6	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.2	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	11	< 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	12	< 5	< 5

Client Sample ID			G01TP413_0.5	TP414_0.1	TP415_0.5	TP416_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N23-Ja0043249	N23-Ja0043250	N23-Ja0043251	N23-Ja0043252
Date Sampled			Jan 19, 2023	Jan 19, 2023	Jan 19, 2023	Jan 19, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	2.5	8.5	1.3	5.3

Client Sample ID			TP417_0.1	TP419_0.1	TP420_0.5	TP421_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			N23-Ja0043253	N23-Ja0043254	N23-Ja0043255	N23-Ja0043256
Date Sampled			Jan 25, 2023	Jan 19, 2023	Jan 23, 2023	Jan 23, 2023
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	96	97	102	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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	%	111	100	101	97
p-Terphenyl-d14 (surr.)	1	%	97	105	102	100

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP417_0.1** **Soil** **N23-Ja0043253** **Jan 25, 2023**	**TP419_0.1** **Soil** **N23-Ja0043254** **Jan 19, 2023**	**TP420_0.5** **Soil** **N23-Ja0043255** **Jan 23, 2023**	**TP421_0.1** **Soil** **N23-Ja0043256** **Jan 23, 2023**
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-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	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-HCH (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	0.5	mg/kg	< 0.5	-	-	< 0.5
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	%	83	-	-	83
Tetrachloro-m-xylene (surr.)	1	%	87	-	-	85
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Bolstar	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Coumaphos	2	mg/kg	< 2	-	-	< 2
Demeton-S	0.2	mg/kg	< 0.2	-	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	-	-	< 0.2
Diazinon	0.2	mg/kg	< 0.2	-	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	-	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	-	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	-	-	< 0.2
EPN	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethion	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Malathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Merphos	0.2	mg/kg	< 0.2	-	-	< 0.2

Client Sample ID			**TP417_0.1**	**TP419_0.1**	**TP420_0.5**	**TP421_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043253**	**N23-Ja0043254**	**N23-Ja0043255**	**N23-Ja0043256**
Date Sampled			**Jan 25, 2023**	**Jan 19, 2023**	**Jan 23, 2023**	**Jan 23, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Monocrotophos	2	mg/kg	< 2	-	-	< 2
Naled	0.2	mg/kg	< 0.2	-	-	< 0.2
Omethoate	2	mg/kg	< 2	-	-	< 2
Phorate	0.2	mg/kg	< 0.2	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	-	-	< 0.2
Ronnel	0.2	mg/kg	< 0.2	-	-	< 0.2
Terbufos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	98	-	-	86
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	%	83	-	-	83
Tetrachloro-m-xylene (surr.)	1	%	87	-	-	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	3.1	< 2	3.2	3.2
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	6.9
Lead	5	mg/kg	5.4	8.0	< 5	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	6.4
Zinc	5	mg/kg	14	28	< 5	34
Sample Properties						
% Moisture	1	%	8.1	3.1	2.5	6.2

Client Sample ID			**TP422_0.5**	**TP423_0.1**	**TP424_0.5**	**TP701_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043257**	**N23-Ja0043258**	**N23-Ja0043259**	**N23-Ja0043260**
Date Sampled			**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**	**Jan 25, 2023**
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	104	95	92	95
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
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	%	96	91	94	96
p-Terphenyl-d14 (surr.)	1	%	102	97	108	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-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled			TP422_0.5 Soil N23-Ja0043257 Jan 23, 2023	TP423_0.1 Soil N23-Ja0043258 Jan 23, 2023	TP424_0.5 Soil N23-Ja0043259 Jan 23, 2023	TP701_0.1 Soil N23-Ja0043260 Jan 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	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-HCH (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	0.5	mg/kg	< 0.5	-	-	< 0.5
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	%	87	-	-	82
Tetrachloro-m-xylene (surr.)	1	%	82	-	-	82
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Bolstar	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Coumaphos	2	mg/kg	< 2	-	-	< 2
Demeton-S	0.2	mg/kg	< 0.2	-	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	-	-	< 0.2
Diazinon	0.2	mg/kg	< 0.2	-	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	-	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	-	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	-	-	< 0.2
EPN	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethion	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Malathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Merphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Monocrotophos	2	mg/kg	< 2	-	-	< 2
Naled	0.2	mg/kg	< 0.2	-	-	< 0.2
Omethoate	2	mg/kg	< 2	-	-	< 2
Phorate	0.2	mg/kg	< 0.2	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2

Client Sample ID			**TP422_0.5**	**TP423_0.1**	**TP424_0.5**	**TP701_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043257**	**N23-Ja0043258**	**N23-Ja0043259**	**N23-Ja0043260**
Date Sampled			**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**	**Jan 25, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Pyrazophos	0.2	mg/kg	< 0.2	-	-	< 0.2
Ronnel	0.2	mg/kg	< 0.2	-	-	< 0.2
Terbufos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	95	-	-	87
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	%	87	-	-	82
Tetrachloro-m-xylene (surr.)	1	%	82	-	-	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	3.4	2.8	4.2	< 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	20	< 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	53	< 5	8.9
Sample Properties						
% Moisture	1	%	4.4	7.2	1.7	2.4

Client Sample ID			**TP702_0.3**	G01**TP704_0.1**	**TP706_0.3**	**TP707_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043261**	**N23-Ja0043262**	**N23-Ja0043263**	**N23-Ja0043264**
Date Sampled			**Jan 20, 2023**	**Jan 25, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
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

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP702_0.3** **Soil** **N23-Ja0043261** **Jan 20, 2023**	[G01]**TP704_0.1** **Soil** **N23-Ja0043262** **Jan 25, 2023**	**TP706_0.3** **Soil** **N23-Ja0043263** **Jan 20, 2023**	**TP707_0.1** **Soil** **N23-Ja0043264** **Jan 20, 2023**
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	82	112	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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	118	85	111
p-Terphenyl-d14 (surr.)	1	%	99	115	89	100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	-
a-HCH	0.05	mg/kg	-	< 0.5	-	-
Aldrin	0.05	mg/kg	-	< 0.5	-	-
b-HCH	0.05	mg/kg	-	< 0.5	-	-
d-HCH	0.05	mg/kg	-	< 0.5	-	-
Dieldrin	0.05	mg/kg	-	< 0.5	-	-
Endosulfan I	0.05	mg/kg	-	< 0.5	-	-
Endosulfan II	0.05	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	-
Endrin	0.05	mg/kg	-	< 0.5	-	-

Client Sample ID			**TP702_0.3**	**G01TP704_0.1**	**TP706_0.3**	**TP707_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043261**	**N23-Ja0043262**	**N23-Ja0043263**	**N23-Ja0043264**
Date Sampled			**Jan 20, 2023**	**Jan 25, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	-
Endrin ketone	0.05	mg/kg	-	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	-
Heptachlor	0.05	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	-
Methoxychlor	0.05	mg/kg	-	< 0.5	-	-
Toxaphene	0.5	mg/kg	-	< 10	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	146	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	99	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.5	-	-
Bolstar	0.2	mg/kg	-	< 0.5	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.5	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.5	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.5	-	-
Coumaphos	2	mg/kg	-	< 5	-	-
Demeton-S	0.2	mg/kg	-	< 0.5	-	-
Demeton-O	0.2	mg/kg	-	< 0.5	-	-
Diazinon	0.2	mg/kg	-	< 0.5	-	-
Dichlorvos	0.2	mg/kg	-	< 0.5	-	-
Dimethoate	0.2	mg/kg	-	< 0.5	-	-
Disulfoton	0.2	mg/kg	-	< 0.5	-	-
EPN	0.2	mg/kg	-	< 0.5	-	-
Ethion	0.2	mg/kg	-	< 0.5	-	-
Ethoprop	0.2	mg/kg	-	< 0.5	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.5	-	-
Fenitrothion	0.2	mg/kg	-	< 0.5	-	-
Fensulfothion	0.2	mg/kg	-	< 0.5	-	-
Fenthion	0.2	mg/kg	-	< 0.5	-	-
Malathion	0.2	mg/kg	-	< 0.5	-	-
Merphos	0.2	mg/kg	-	< 0.5	-	-
Methyl parathion	0.2	mg/kg	-	< 0.5	-	-
Mevinphos	0.2	mg/kg	-	< 0.5	-	-
Monocrotophos	2	mg/kg	-	< 5	-	-
Naled	0.2	mg/kg	-	< 0.5	-	-
Omethoate	2	mg/kg	-	< 5	-	-
Phorate	0.2	mg/kg	-	< 0.5	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.5	-	-
Pyrazophos	0.2	mg/kg	-	< 0.5	-	-
Ronnel	0.2	mg/kg	-	< 0.5	-	-
Terbufos	0.2	mg/kg	-	< 0.5	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.5	-	-
Tokuthion	0.2	mg/kg	-	< 0.5	-	-
Trichloronate	0.2	mg/kg	-	< 0.5	-	-
Triphenylphosphate (surr.)	1	%	-	117	-	-

Client Sample ID			**TP702_0.3**	**G01TP704_0.1**	**TP706_0.3**	**TP707_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043261**	**N23-Ja0043262**	**N23-Ja0043263**	**N23-Ja0043264**
Date Sampled			**Jan 20, 2023**	**Jan 25, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	-
Aroclor-1221	0.1	mg/kg	-	< 1	-	-
Aroclor-1232	0.1	mg/kg	-	< 1	-	-
Aroclor-1242	0.1	mg/kg	-	< 1	-	-
Aroclor-1248	0.1	mg/kg	-	< 1	-	-
Aroclor-1254	0.1	mg/kg	-	< 1	-	-
Aroclor-1260	0.1	mg/kg	-	< 1	-	-
Total PCB*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	146	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	99	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.3	< 2	24
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.4	< 5	< 5
Copper	5	mg/kg	< 5	5.9	< 5	< 5
Lead	5	mg/kg	< 5	12	< 5	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	5.5	< 5	< 5
Zinc	5	mg/kg	< 5	25	< 5	21
Sample Properties						
% Moisture	1	%	14	8.6	20	24

Client Sample ID			**TP708_0.3**	**TP710_0.3**	**TP712_0.1**	**TP713_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043265**	**N23-Ja0043266**	**N23-Ja0043267**	**N23-Ja0043268**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
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	78	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	74	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	152	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	110	110	109	104

Client Sample ID			**TP708_0.3**	**TP710_0.3**	**TP712_0.1**	**TP713_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043265**	**N23-Ja0043266**	**N23-Ja0043267**	**N23-Ja0043268**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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	96	106	113
p-Terphenyl-d14 (surr.)	1	%	89	105	87	93
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-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	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-HCH (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	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	TP708_0.3 Soil N23-Ja0043265 Jan 20, 2023	TP710_0.3 Soil N23-Ja0043266 Jan 20, 2023	TP712_0.1 Soil N23-Ja0043267 Jan 20, 2023	TP713_0.1 Soil N23-Ja0043268 Jan 20, 2023
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	-
Dibutylchlorendate (surr.)	1	%	-	-	80	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	98	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Bolstar	0.2	mg/kg	-	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.2	-
Coumaphos	2	mg/kg	-	-	< 2	-
Demeton-S	0.2	mg/kg	-	-	< 0.2	-
Demeton-O	0.2	mg/kg	-	-	< 0.2	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Dichlorvos	0.2	mg/kg	-	-	< 0.2	-
Dimethoate	0.2	mg/kg	-	-	< 0.2	-
Disulfoton	0.2	mg/kg	-	-	< 0.2	-
EPN	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.2	mg/kg	-	-	< 0.2	-
Ethoprop	0.2	mg/kg	-	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	-	< 0.2	-
Fenitrothion	0.2	mg/kg	-	-	< 0.2	-
Fensulfothion	0.2	mg/kg	-	-	< 0.2	-
Fenthion	0.2	mg/kg	-	-	< 0.2	-
Malathion	0.2	mg/kg	-	-	< 0.2	-
Merphos	0.2	mg/kg	-	-	< 0.2	-
Methyl parathion	0.2	mg/kg	-	-	< 0.2	-
Mevinphos	0.2	mg/kg	-	-	< 0.2	-
Monocrotophos	2	mg/kg	-	-	< 2	-
Naled	0.2	mg/kg	-	-	< 0.2	-
Omethoate	2	mg/kg	-	-	< 2	-
Phorate	0.2	mg/kg	-	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.2	-
Pyrazophos	0.2	mg/kg	-	-	< 0.2	-
Ronnel	0.2	mg/kg	-	-	< 0.2	-
Terbufos	0.2	mg/kg	-	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.2	-
Tokuthion	0.2	mg/kg	-	-	< 0.2	-
Trichloronate	0.2	mg/kg	-	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	-	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	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-

Client Sample ID			**TP708_0.3**	**TP710_0.3**	**TP712_0.1**	**TP713_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043265**	**N23-Ja0043266**	**N23-Ja0043267**	**N23-Ja0043268**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	80	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	98	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	130	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	130	< 100
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	4.6	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	16	6.8
Copper	5	mg/kg	< 5	< 5	14	8.3
Lead	5	mg/kg	< 5	< 5	20	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	11	< 5
Zinc	5	mg/kg	< 5	< 5	64	41
Sample Properties						
% Moisture	1	%	15	3.5	9.0	7.6

Client Sample ID			**TP715_0.3**	**TP716_0.1**	**TP718_0.3**	**TP720_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043269**	**N23-Ja0043270**	**N23-Ja0043271**	**N23-Ja0043272**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
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	46	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	170	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	68	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	284	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	106	104	99	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)^{N04}	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			**TP715_0.3**	**TP716_0.1**	**TP718_0.3**	**TP720_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043269**	**N23-Ja0043270**	**N23-Ja0043271**	**N23-Ja0043272**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
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	%	94	102	99	70
p-Terphenyl-d14 (surr.)	1	%	81	85	102	64
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-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	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-HCH (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	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
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	%	102	83	-	59
Tetrachloro-m-xylene (surr.)	1	%	89	95	-	58

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP715_0.3** **Soil** **N23-Ja0043269** **Jan 20, 2023**	**TP716_0.1** **Soil** **N23-Ja0043270** **Jan 20, 2023**	**TP718_0.3** **Soil** **N23-Ja0043271** **Jan 20, 2023**	**TP720_0.1** **Soil** **N23-Ja0043272** **Jan 20, 2023**
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	-	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	-	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Omethoate	2	mg/kg	< 2	< 2	-	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Triphenylphosphate (surr.)	1	%	110	86	-	50
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	%	102	83	-	59
Tetrachloro-m-xylene (surr.)	1	%	89	95	-	58

Client Sample ID			**TP715_0.3**	**TP716_0.1**	**TP718_0.3**	**TP720_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043269**	**N23-Ja0043270**	**N23-Ja0043271**	**N23-Ja0043272**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	200	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	200	< 100
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.1	< 2	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	13	< 5	5.7
Copper	5	mg/kg	< 5	9.7	5.8	7.8
Lead	5	mg/kg	< 5	15	6.7	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	< 5	9.2	< 5	< 5
Zinc	5	mg/kg	< 5	55	17	24
Sample Properties						
% Moisture	1	%	20	20	22	5.3

Client Sample ID			**TP721_0.3**	**TP723_0.1**	G01**TP724_0.3**	G01**TP726_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043273**	**N23-Ja0043274**	**N23-Ja0043275**	**N23-Ja0043276**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 23, 2023**
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	57	< 50	65
TRH C29-C36	50	mg/kg	< 50	71	< 50	73
TRH C10-C36 (Total)	50	mg/kg	< 50	128	< 50	138
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	82	78	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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			**TP721_0.3**	**TP723_0.1**	[G01]**TP724_0.3**	[G01]**TP726_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043273**	**N23-Ja0043274**	**N23-Ja0043275**	**N23-Ja0043276**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 23, 2023**
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	0.9
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
2-Fluorobiphenyl (surr.)	1	%	79	88	105	67
p-Terphenyl-d14 (surr.)	1	%	74	87	109	63
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 1	< 1
4.4'-DDD	0.05	mg/kg	-	-	< 0.5	< 0.5
4.4'-DDE	0.05	mg/kg	-	-	< 0.5	< 0.5
4.4'-DDT	0.05	mg/kg	-	-	< 0.5	< 0.5
a-HCH	0.05	mg/kg	-	-	< 0.5	< 0.5
Aldrin	0.05	mg/kg	-	-	< 0.5	< 0.5
b-HCH	0.05	mg/kg	-	-	< 0.5	< 0.5
d-HCH	0.05	mg/kg	-	-	< 0.5	< 0.5
Dieldrin	0.05	mg/kg	-	-	< 0.5	< 0.5
Endosulfan I	0.05	mg/kg	-	-	< 0.5	< 0.5
Endosulfan II	0.05	mg/kg	-	-	< 0.5	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.5	< 0.5
Endrin	0.05	mg/kg	-	-	< 0.5	< 0.5
Endrin aldehyde	0.05	mg/kg	-	-	< 0.5	< 0.5
Endrin ketone	0.05	mg/kg	-	-	< 0.5	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.5	< 0.5
Heptachlor	0.05	mg/kg	-	-	< 0.5	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.5	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.5	< 0.5
Methoxychlor	0.05	mg/kg	-	-	< 0.5	< 0.5
Toxaphene	0.5	mg/kg	-	-	< 10	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.5	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 1	< 1
Dibutylchlorendate (surr.)	1	%	-	-	93	53
Tetrachloro-m-xylene (surr.)	1	%	-	-	92	59
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	< 0.5	< 0.5
Bolstar	0.2	mg/kg	-	-	< 0.5	< 0.5
Chlorfenvinphos	0.2	mg/kg	-	-	< 0.5	< 0.5
Chlorpyrifos	0.2	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP721_0.3** **Soil** **N23-Ja0043273** **Jan 20, 2023**	**TP723_0.1** **Soil** **N23-Ja0043274** **Jan 20, 2023**	G01**TP724_0.3** **Soil** **N23-Ja0043275** **Jan 20, 2023**	G01**TP726_0.1** **Soil** **N23-Ja0043276** **Jan 23, 2023**
Organophosphorus Pesticides						
Chlorpyrifos-methyl	0.2	mg/kg	-	-	< 0.5	< 0.5
Coumaphos	2	mg/kg	-	-	< 5	< 5
Demeton-S	0.2	mg/kg	-	-	< 0.5	< 0.5
Demeton-O	0.2	mg/kg	-	-	< 0.5	< 0.5
Diazinon	0.2	mg/kg	-	-	< 0.5	< 0.5
Dichlorvos	0.2	mg/kg	-	-	< 0.5	< 0.5
Dimethoate	0.2	mg/kg	-	-	< 0.5	< 0.5
Disulfoton	0.2	mg/kg	-	-	< 0.5	< 0.5
EPN	0.2	mg/kg	-	-	< 0.5	< 0.5
Ethion	0.2	mg/kg	-	-	< 0.5	< 0.5
Ethoprop	0.2	mg/kg	-	-	< 0.5	< 0.5
Ethyl parathion	0.2	mg/kg	-	-	< 0.5	< 0.5
Fenitrothion	0.2	mg/kg	-	-	< 0.5	< 0.5
Fensulfothion	0.2	mg/kg	-	-	< 0.5	< 0.5
Fenthion	0.2	mg/kg	-	-	< 0.5	< 0.5
Malathion	0.2	mg/kg	-	-	< 0.5	< 0.5
Merphos	0.2	mg/kg	-	-	< 0.5	< 0.5
Methyl parathion	0.2	mg/kg	-	-	< 0.5	< 0.5
Mevinphos	0.2	mg/kg	-	-	< 0.5	< 0.5
Monocrotophos	2	mg/kg	-	-	< 5	< 5
Naled	0.2	mg/kg	-	-	< 0.5	< 0.5
Omethoate	2	mg/kg	-	-	< 5	< 5
Phorate	0.2	mg/kg	-	-	< 0.5	< 0.5
Pirimiphos-methyl	0.2	mg/kg	-	-	< 0.5	< 0.5
Pyrazophos	0.2	mg/kg	-	-	< 0.5	< 0.5
Ronnel	0.2	mg/kg	-	-	< 0.5	< 0.5
Terbufos	0.2	mg/kg	-	-	< 0.5	< 0.5
Tetrachlorvinphos	0.2	mg/kg	-	-	< 0.5	< 0.5
Tokuthion	0.2	mg/kg	-	-	< 0.5	< 0.5
Trichloronate	0.2	mg/kg	-	-	< 0.5	< 0.5
Triphenylphosphate (surr.)	1	%	-	-	72	Q09INT
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 1	< 1
Aroclor-1221	0.1	mg/kg	-	-	< 1	< 1
Aroclor-1232	0.1	mg/kg	-	-	< 1	< 1
Aroclor-1242	0.1	mg/kg	-	-	< 1	< 1
Aroclor-1248	0.1	mg/kg	-	-	< 1	< 1
Aroclor-1254	0.1	mg/kg	-	-	< 1	< 1
Aroclor-1260	0.1	mg/kg	-	-	< 1	< 1
Total PCB*	0.1	mg/kg	-	-	< 1	< 1
Dibutylchlorendate (surr.)	1	%	-	-	93	53
Tetrachloro-m-xylene (surr.)	1	%	-	-	92	59
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110	< 100	120
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	110	< 100	120

Client Sample ID			TP721_0.3	TP723_0.1	[G01]TP724_0.3	[G01]TP726_0.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043273**	**N23-Ja0043274**	**N23-Ja0043275**	**N23-Ja0043276**
Date Sampled			Jan 20, 2023	Jan 20, 2023	Jan 20, 2023	Jan 23, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.9	< 2	2.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	9.2	< 5	6.1
Copper	5	mg/kg	< 5	12	< 5	8.6
Lead	5	mg/kg	< 5	12	< 5	10
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.8	< 5	< 5
Zinc	5	mg/kg	7.0	53	< 5	60
Sample Properties						
% Moisture	1	%	19	8.9	18	10

Client Sample ID			TP727_0.3	TP728_0.3	TP729_0.1	TP730_0.3
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043277**	**N23-Ja0043278**	**N23-Ja0043279**	**N23-Ja0043280**
Date Sampled			Jan 23, 2023	Jan 23, 2023	Jan 23, 2023	Jan 23, 2023
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	102	104	119	94
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
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

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP727_0.3** **Soil** **N23-Ja0043277** **Jan 23, 2023**	**TP728_0.3** **Soil** **N23-Ja0043278** **Jan 23, 2023**	**TP729_0.1** **Soil** **N23-Ja0043279** **Jan 23, 2023**	**TP730_0.3** **Soil** **N23-Ja0043280** **Jan 23, 2023**
Polycyclic Aromatic Hydrocarbons						
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	%	84	126	108	109
p-Terphenyl-d14 (surr.)	1	%	79	117	98	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.5	-	-
a-HCH	0.05	mg/kg	-	< 0.5	-	-
Aldrin	0.05	mg/kg	-	< 0.5	-	-
b-HCH	0.05	mg/kg	-	< 0.5	-	-
d-HCH	0.05	mg/kg	-	< 0.5	-	-
Dieldrin	0.05	mg/kg	-	< 0.5	-	-
Endosulfan I	0.05	mg/kg	-	< 0.5	-	-
Endosulfan II	0.05	mg/kg	-	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	-	-
Endrin	0.05	mg/kg	-	< 0.5	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.5	-	-
Endrin ketone	0.05	mg/kg	-	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	-	-
Heptachlor	0.05	mg/kg	-	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	-	-
Methoxychlor	0.05	mg/kg	-	< 0.5	-	-
Toxaphene	0.5	mg/kg	-	< 10	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	94	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	104	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.5	-	-
Bolstar	0.2	mg/kg	-	< 0.5	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.5	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.5	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.5	-	-
Coumaphos	2	mg/kg	-	< 5	-	-
Demeton-S	0.2	mg/kg	-	< 0.5	-	-
Demeton-O	0.2	mg/kg	-	< 0.5	-	-
Diazinon	0.2	mg/kg	-	< 0.5	-	-
Dichlorvos	0.2	mg/kg	-	< 0.5	-	-

Client Sample ID			**TP727_0.3**	**TP728_0.3**	**TP729_0.1**	**TP730_0.3**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043277**	**N23-Ja0043278**	**N23-Ja0043279**	**N23-Ja0043280**
Date Sampled			**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	-	< 0.5	-	-
Disulfoton	0.2	mg/kg	-	< 0.5	-	-
EPN	0.2	mg/kg	-	< 0.5	-	-
Ethion	0.2	mg/kg	-	< 0.5	-	-
Ethoprop	0.2	mg/kg	-	< 0.5	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.5	-	-
Fenitrothion	0.2	mg/kg	-	< 0.5	-	-
Fensulfothion	0.2	mg/kg	-	< 0.5	-	-
Fenthion	0.2	mg/kg	-	< 0.5	-	-
Malathion	0.2	mg/kg	-	< 0.5	-	-
Merphos	0.2	mg/kg	-	< 0.5	-	-
Methyl parathion	0.2	mg/kg	-	< 0.5	-	-
Mevinphos	0.2	mg/kg	-	< 0.5	-	-
Monocrotophos	2	mg/kg	-	< 5	-	-
Naled	0.2	mg/kg	-	< 0.5	-	-
Omethoate	2	mg/kg	-	< 5	-	-
Phorate	0.2	mg/kg	-	< 0.5	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.5	-	-
Pyrazophos	0.2	mg/kg	-	< 0.5	-	-
Ronnel	0.2	mg/kg	-	< 0.5	-	-
Terbufos	0.2	mg/kg	-	< 0.5	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.5	-	-
Tokuthion	0.2	mg/kg	-	< 0.5	-	-
Trichloronate	0.2	mg/kg	-	< 0.5	-	-
Triphenylphosphate (surr.)	1	%	-	105	-	-
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	-	-
Dibutylchlorendate (surr.)	1	%	-	94	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	104	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	5.0	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	12	< 5
Copper	5	mg/kg	< 5	< 5	16	< 5
Lead	5	mg/kg	< 5	< 5	11	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	8.6	< 5
Zinc	5	mg/kg	< 5	< 5	73	< 5

Client Sample ID			**TP727_0.3**	**TP728_0.3**	**TP729_0.1**	**TP730_0.3**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043277**	**N23-Ja0043278**	**N23-Ja0043279**	**N23-Ja0043280**
Date Sampled			**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**	**Jan 23, 2023**
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	19	18	14	8.2

Client Sample ID			**TP732_0.3**	**QA01**	**QA03**	[G01]**QA04**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043281**	**N23-Ja0043282**	**N23-Ja0043283**	**N23-Ja0043284**
Date Sampled			**Jan 23, 2023**	**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**
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	51	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	51	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	81	57	70
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.4	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.6	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	1.1	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.8	< 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	0.6	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.1	< 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	2.1	< 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	0.6	< 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	2.1	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	9.3	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	85	96	87
p-Terphenyl-d14 (surr.)	1	%	79	78	90	80

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	TP732_0.3 Soil N23-Ja0043281 Jan 23, 2023	QA01 Soil N23-Ja0043282 Jan 25, 2023	QA03 Soil N23-Ja0043283 Jan 25, 2023	G01QA04 Soil N23-Ja0043284 Jan 25, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	67	121	-	72
Tetrachloro-m-xylene (surr.)	1	%	75	72	-	75
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Coumaphos	2	mg/kg	< 2	< 2	-	< 5
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
EPN	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5

Client Sample ID			**TP732_0.3**	**QA01**	**QA03**	G01**QA04**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043281**	**N23-Ja0043282**	**N23-Ja0043283**	**N23-Ja0043284**
Date Sampled			**Jan 23, 2023**	**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Monocrotophos	2	mg/kg	< 2	< 2	-	< 5
Naled	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Omethoate	2	mg/kg	< 2	< 2	-	< 5
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.5
Triphenylphosphate (surr.)	1	%	63	93	-	71
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 1
Dibutylchlorendate (surr.)	1	%	67	121	-	72
Tetrachloro-m-xylene (surr.)	1	%	75	72	-	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.3	< 2	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.5	< 5	< 5
Copper	5	mg/kg	< 5	5.8	< 5	< 5
Lead	5	mg/kg	< 5	6.4	5.0	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	5.3	< 5	< 5
Zinc	5	mg/kg	< 5	30	13	10.0
Sample Properties						
% Moisture	1	%	2.4	9.8	1.4	3.8

Client Sample ID			[G01]**QA06**	**QA08**	**QA09**	**QA10**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043285**	**N23-Ja0043286**	**N23-Ja0043287**	**N23-Ja0043288**
Date Sampled			**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**
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	310	< 50	65	< 50
TRH C29-C36	50	mg/kg	130	< 50	67	< 50
TRH C10-C36 (Total)	50	mg/kg	440	< 50	132	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	73	81	77	73
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.9	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.2	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.4	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	1.7	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.3	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.4	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.8	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	2.2	< 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	4.0	< 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	0.8	< 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	3.8	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	18	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	85	106	80	78
p-Terphenyl-d14 (surr.)	1	%	83	103	76	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.5	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.5	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.5	< 0.05	-	-

Client Sample ID **Sample Matrix** **Eurofins Sample No.** **Date Sampled** Test/Reference	LOR	Unit	G01**QA06** **Soil** **N23-Ja0043285** **Jan 25, 2023**	**QA08** **Soil** **N23-Ja0043286** **Jan 25, 2023**	**QA09** **Soil** **N23-Ja0043287** **Jan 25, 2023**	**QA10** **Soil** **N23-Ja0043288** **Jan 25, 2023**
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.5	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.5	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 10	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	106	126	-	-
Tetrachloro-m-xylene (surr.)	1	%	72	91	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.5	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.2	-	-
Coumaphos	2	mg/kg	< 5	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.5	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.5	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.5	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.5	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.5	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.5	< 0.2	-	-
EPN	0.2	mg/kg	< 0.5	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.5	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.5	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.5	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.5	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.5	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.5	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.5	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Monocrotophos	2	mg/kg	< 5	< 2	-	-
Naled	0.2	mg/kg	< 0.5	< 0.2	-	-
Omethoate	2	mg/kg	< 5	< 2	-	-
Phorate	0.2	mg/kg	< 0.5	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.2	-	-

Client Sample ID			G01**QA06**	**QA08**	**QA09**	**QA10**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043285**	**N23-Ja0043286**	**N23-Ja0043287**	**N23-Ja0043288**
Date Sampled			**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Pyrazophos	0.2	mg/kg	< 0.5	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.5	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.5	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.5	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.5	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	74	126	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	106	126	-	-
Tetrachloro-m-xylene (surr.)	1	%	72	91	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	390	< 100	120	< 100
TRH >C34-C40	100	mg/kg	140	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	530	< 100	120	< 100
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.5	< 2	4.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.2	< 5	6.3
Copper	5	mg/kg	< 5	5.2	< 5	< 5
Lead	5	mg/kg	< 5	8.4	< 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	30	18	16	24
Sample Properties						
% Moisture	1	%	3.4	7.8	2.9	9.1

Client Sample ID			G01**QA11**	**Trip BLANK18/01/23**	**TRIP SPIKE 18/01/23**	**Trip BLANK 19/01/23**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043289**	**N23-Ja0043290**	**N23-Ja0043291**	**N23-Ja0043292**
Date Sampled			**Jan 25, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 19, 2023**
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	-	-	-
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			[G01]QA11	Trip BLANK18/01/23	TRIP SPIKE 18/01/23	Trip BLANK 19/01/23
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043289**	**N23-Ja0043290**	**N23-Ja0043291**	**N23-Ja0043292**
Date Sampled			**Jan 25, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	76	113	-	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
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	-	-	-
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	%	85	-	-	-
p-Terphenyl-d14 (surr.)	1	%	77	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.5	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.5	-	-	-
a-HCH	0.05	mg/kg	< 0.5	-	-	-
Aldrin	0.05	mg/kg	< 0.5	-	-	-
b-HCH	0.05	mg/kg	< 0.5	-	-	-
d-HCH	0.05	mg/kg	< 0.5	-	-	-
Dieldrin	0.05	mg/kg	< 0.5	-	-	-
Endosulfan I	0.05	mg/kg	< 0.5	-	-	-
Endosulfan II	0.05	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	-	-

Client Sample ID			^{G01}QA11	Trip BLANK18/01/23	TRIP SPIKE 18/01/23	Trip BLANK 19/01/23
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043289**	**N23-Ja0043290**	**N23-Ja0043291**	**N23-Ja0043292**
Date Sampled			**Jan 25, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.5	-	-	-
Endrin ketone	0.05	mg/kg	< 0.5	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	-	-
Heptachlor	0.05	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	-	-
Methoxychlor	0.05	mg/kg	< 0.5	-	-	-
Toxaphene	0.5	mg/kg	< 10	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	73	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	-	-	-
Bolstar	0.2	mg/kg	< 0.5	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.5	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.5	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	-	-	-
Coumaphos	2	mg/kg	< 5	-	-	-
Demeton-S	0.2	mg/kg	< 0.5	-	-	-
Demeton-O	0.2	mg/kg	< 0.5	-	-	-
Diazinon	0.2	mg/kg	< 0.5	-	-	-
Dichlorvos	0.2	mg/kg	< 0.5	-	-	-
Dimethoate	0.2	mg/kg	< 0.5	-	-	-
Disulfoton	0.2	mg/kg	< 0.5	-	-	-
EPN	0.2	mg/kg	< 0.5	-	-	-
Ethion	0.2	mg/kg	< 0.5	-	-	-
Ethoprop	0.2	mg/kg	< 0.5	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.5	-	-	-
Fenitrothion	0.2	mg/kg	< 0.5	-	-	-
Fensulfothion	0.2	mg/kg	< 0.5	-	-	-
Fenthion	0.2	mg/kg	< 0.5	-	-	-
Malathion	0.2	mg/kg	< 0.5	-	-	-
Merphos	0.2	mg/kg	< 0.5	-	-	-
Methyl parathion	0.2	mg/kg	< 0.5	-	-	-
Mevinphos	0.2	mg/kg	< 0.5	-	-	-
Monocrotophos	2	mg/kg	< 5	-	-	-
Naled	0.2	mg/kg	< 0.5	-	-	-
Omethoate	2	mg/kg	< 5	-	-	-
Phorate	0.2	mg/kg	< 0.5	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.5	-	-	-
Pyrazophos	0.2	mg/kg	< 0.5	-	-	-
Ronnel	0.2	mg/kg	< 0.5	-	-	-
Terbufos	0.2	mg/kg	< 0.5	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.5	-	-	-

Client Sample ID			G01**QA11**	**Trip BLANK18/01/23**	**TRIP SPIKE 18/01/23**	**Trip BLANK 19/01/23**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043289**	**N23-Ja0043290**	**N23-Ja0043291**	**N23-Ja0043292**
Date Sampled			**Jan 25, 2023**	**Jan 18, 2023**	**Jan 18, 2023**	**Jan 19, 2023**
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Tokuthion	0.2	mg/kg	< 0.5	-	-	-
Trichloronate	0.2	mg/kg	< 0.5	-	-	-
Triphenylphosphate (surr.)	1	%	72	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	-	-	-
Aroclor-1221	0.1	mg/kg	< 1	-	-	-
Aroclor-1232	0.1	mg/kg	< 1	-	-	-
Aroclor-1242	0.1	mg/kg	< 1	-	-	-
Aroclor-1248	0.1	mg/kg	< 1	-	-	-
Aroclor-1254	0.1	mg/kg	< 1	-	-	-
Aroclor-1260	0.1	mg/kg	< 1	-	-	-
Total PCB*	0.1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	73	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	3.9	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	< 5	-	-	-
Copper	5	mg/kg	< 5	-	-	-
Lead	5	mg/kg	7.3	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	< 5	-	-	-
Zinc	5	mg/kg	22	-	-	-
Sample Properties						
% Moisture	1	%	2.5	-	-	-
NaphthaleneN02	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	1	%	-	-	97	-
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)N04	20	mg/kg	-	< 20	-	< 20
Naphthalene	1	%	-	-	120	-
TRH C6-C9	1	%	-	-	99	-
BTEX						
Benzene	1	%	-	-	100	-
Ethylbenzene	1	%	-	-	110	-
m&p-Xylenes	1	%	-	-	120	-
o-Xylene	1	%	-	-	120	-
Toluene	1	%	-	-	110	-
Xylenes - Total	1	%	-	-	120	-
4-Bromofluorobenzene (surr.)	1	%	-	-	89	-

Client Sample ID			**TRIP SPIKE 19/01/23**	**Trip BLANK 20/01/23**	**TRIP SPIKE 20/01/23**	**Trip Blank 23/01/23**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**N23-Ja0043293**	**N23-Ja0043294**	**N23-Ja0043295**	**N23-Ja0043296**
Date Sampled			**Jan 19, 2023**	**Jan 20, 2023**	**Jan 20, 2023**	**Jan 23, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
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	%	-	101	-	105
Naphthalene^{N02}	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	1	%	78	-	85	-
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)^{N04}	20	mg/kg	-	< 20	-	< 20
Naphthalene	1	%	86	-	77	-
TRH C6-C9	1	%	82	-	89	-
BTEX						
Benzene	1	%	92	-	92	-
Ethylbenzene	1	%	87	-	94	-
m&p-Xylenes	1	%	87	-	94	-
o-Xylene	1	%	94	-	90	-
Toluene	1	%	89	-	97	-
Xylenes - Total	1	%	91	-	91	-
4-Bromofluorobenzene (surr.)	1	%	100	-	104	-

Client Sample ID			**TRIP SPIKE 23/01/23**
Sample Matrix			**Soil**
Eurofins Sample No.			**N23-Ja0043297**
Date Sampled			**Jan 23, 2023**
Test/Reference	LOR	Unit	
TRH C6-C10	1	%	110
Total Recoverable Hydrocarbons			
Naphthalene	1	%	110
TRH C6-C9	1	%	110
BTEX			
Benzene	1	%	120
Ethylbenzene	1	%	110
m&p-Xylenes	1	%	110
o-Xylene	1	%	110
Toluene	1	%	120
Xylenes - Total	1	%	110
4-Bromofluorobenzene (surr.)	1	%	90

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Feb 08, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Feb 09, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B15			
Organochlorine Pesticides	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Feb 09, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Feb 09, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Jan 30, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
% Clay	Brisbane	Feb 13, 2023	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25 °C as rec.)	Sydney	Feb 08, 2023	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Feb 10, 2023	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Feb 20, 2023	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			

Company Name: WSP Australia P/L Newcastle
Address: PO Box 1162
Newcastle
NSW 2300

Project Name: Hunter River HS
Project ID: PS135419

Order No.:
Report #: 958898
Phone: 02 4929 8300
Fax: 02 4929 7299

Received: Jan 30, 2023 8:30 AM
Due: Feb 6, 2023
Priority: 5 Day
Contact Name: Nick Mason

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	TP101_0.5	Jan 20, 2023		Soil	N23-Ja0043193					X		X		X			
2	TP102_0.5	Jan 20, 2023		Soil	N23-Ja0043194							X		X			
3	TP103_0.1	Jan 20, 2023		Soil	N23-Ja0043195					X		X		X			
4	TP103_0.2	Jan 20, 2023		Soil	N23-Ja0043196							X		X			
5	TP104_0.1	Jan 20, 2023		Soil	N23-Ja0043197					X		X		X			
6	TP106_0.1	Jan 20, 2023		Soil	N23-Ja0043198					X		X		X			
7	TP107_0.5	Jan 20, 2023		Soil	N23-Ja0043199							X		X			
8	TP108_0.1	Jan 20, 2023		Soil	N23-Ja0043200							X		X			
9	TP109_0.5	Jan 20, 2023		Soil	N23-Ja0043201					X		X		X			
10	TP110_0.1	Jan 20, 2023		Soil	N23-Ja0043202							X		X			
11	TP111_0.5	Jan 20, 2023		Soil	N23-Ja0043203							X		X			

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Project Name: Hunter River HS
Project ID: PS135419

Order No.:
Report #: 958898
Phone: 02 4929 8300
Fax: 02 4929 7299

Received: Jan 30, 2023 8:30 AM
Due: Feb 6, 2023
Priority: 5 Day
Contact Name: Nick Mason

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
12	TP113_0.5	Jan 23, 2023		Soil	N23-Ja0043204					X		X		X			
13	TP114_0.1	Jan 23, 2023		Soil	N23-Ja0043205							X		X			
14	TP115_0.5	Jan 23, 2023		Soil	N23-Ja0043206					X		X		X			
15	TP116_0.1	Jan 23, 2023		Soil	N23-Ja0043207							X		X			
16	TP117_0.5	Jan 23, 2023		Soil	N23-Ja0043208					X		X		X			
17	TP201_0.1	Jan 18, 2023		Soil	N23-Ja0043209					X		X		X			
18	TP203_0.5	Jan 18, 2023		Soil	N23-Ja0043210							X		X			
19	TP205_0.1	Jan 18, 2023		Soil	N23-Ja0043211					X		X		X			
20	TP205_0.5	Jan 18, 2023		Soil	N23-Ja0043212	X		X				X	X				
21	TP207_0.5	Jan 18, 2023		Soil	N23-Ja0043213							X		X			
22	TP209_0.1	Jan 18, 2023		Soil	N23-Ja0043214					X		X		X			
23	TP210_0.5	Jan 18, 2023		Soil	N23-Ja0043215							X		X			
24	TP211_0.1	Jan 25, 2023		Soil	N23-Ja0043216					X		X		X			
25	TP213_0.5	Jan 19, 2023		Soil	N23-Ja0043217							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
26	TP214_0.1	Jan 19, 2023		Soil	N23-Ja0043218					X		X		X			
27	TP215_0.5	Jan 19, 2023		Soil	N23-Ja0043219							X		X			
28	TP301_0.1	Jan 25, 2023		Soil	N23-Ja0043220					X		X		X			
29	TP302_0.5	Jan 18, 2023		Soil	N23-Ja0043221							X		X			
30	TP304_0.5	Jan 18, 2023		Soil	N23-Ja0043222					X		X		X			
31	TP305_0.1	Jan 18, 2023		Soil	N23-Ja0043223							X		X			
32	TP307_0.1	Jan 18, 2023		Soil	N23-Ja0043224							X		X			
33	TP308_0.5	Jan 18, 2023		Soil	N23-Ja0043225					X		X		X			
34	TP309_0.1	Jan 18, 2023		Soil	N23-Ja0043226							X		X			
35	TP310_0.5	Jan 18, 2023		Soil	N23-Ja0043227	X		X		X		X	X	X			
36	TP311_0.1	Jan 18, 2023		Soil	N23-Ja0043228							X		X			
37	TP313_0.1	Jan 18, 2023		Soil	N23-Ja0043229							X		X			
38	TP314_0.5	Jan 18, 2023		Soil	N23-Ja0043230					X		X		X			
39	TP315_0.1	Jan 25, 2023		Soil	N23-Ja0043231					X		X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
40	TP316_0.5	Jan 18, 2023		Soil	N23-Ja0043232							X		X			
41	TP317_0.1	Jan 18, 2023		Soil	N23-Ja0043233							X		X			
42	TP318_0.5	Jan 18, 2023		Soil	N23-Ja0043234					X		X		X			
43	TP319_0.1	Jan 18, 2023		Soil	N23-Ja0043235							X		X			
44	TP320_0.5	Jan 18, 2023		Soil	N23-Ja0043236							X		X			
45	TP321_0.1	Jan 18, 2023		Soil	N23-Ja0043237							X		X			
46	TP401_0.1	Jan 19, 2023		Soil	N23-Ja0043238					X		X		X			
47	TP403_0.1	Jan 19, 2023		Soil	N23-Ja0043239							X		X			
48	TP404_0.5	Jan 19, 2023		Soil	N23-Ja0043240					X		X		X			
49	TP405_0.1	Jan 19, 2023		Soil	N23-Ja0043241							X		X			
50	TP406_0.5	Jan 19, 2023		Soil	N23-Ja0043242					X		X		X			
51	TP408_0.5	Jan 19, 2023		Soil	N23-Ja0043243							X		X			
52	TP409_0.5	Jan 19, 2023		Soil	N23-Ja0043244					X		X		X			
53	TP410_0.1	Jan 25, 2023		Soil	N23-Ja0043245							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
54	TP411_0.1	Jan 19, 2023		Soil	N23-Ja0043246					X		X		X			
55	TP411_0.5	Jan 19, 2023		Soil	N23-Ja0043247							X		X			
56	TP412_0.1	Jan 19, 2023		Soil	N23-Ja0043248					X		X		X			
57	TP413_0.5	Jan 19, 2023		Soil	N23-Ja0043249					X		X		X			
58	TP414_0.1	Jan 19, 2023		Soil	N23-Ja0043250							X		X			
59	TP415_0.5	Jan 19, 2023		Soil	N23-Ja0043251							X		X			
60	TP416_0.1	Jan 19, 2023		Soil	N23-Ja0043252					X		X		X			
61	TP417_0.1	Jan 25, 2023		Soil	N23-Ja0043253					X		X		X			
62	TP419_0.1	Jan 19, 2023		Soil	N23-Ja0043254							X		X			
63	TP420_0.5	Jan 23, 2023		Soil	N23-Ja0043255							X		X			
64	TP421_0.1	Jan 23, 2023		Soil	N23-Ja0043256					X		X		X			
65	TP422_0.5	Jan 23, 2023		Soil	N23-Ja0043257					X		X		X			
66	TP423_0.1	Jan 23, 2023		Soil	N23-Ja0043258							X		X			
67	TP424_0.5	Jan 23, 2023		Soil	N23-Ja0043259							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
68	TP701_0.1	Jan 25, 2023		Soil	N23-Ja0043260					X		X		X			
69	TP702_0.3	Jan 20, 2023		Soil	N23-Ja0043261							X		X			
70	TP704_0.1	Jan 25, 2023		Soil	N23-Ja0043262					X		X		X			
71	TP706_0.3	Jan 20, 2023		Soil	N23-Ja0043263							X		X			
72	TP707_0.1	Jan 20, 2023		Soil	N23-Ja0043264							X		X			
73	TP708_0.3	Jan 20, 2023		Soil	N23-Ja0043265							X		X			
74	TP710_0.3	Jan 20, 2023		Soil	N23-Ja0043266							X		X			
75	TP712_0.1	Jan 20, 2023		Soil	N23-Ja0043267					X		X		X			
76	TP713_0.1	Jan 20, 2023		Soil	N23-Ja0043268							X		X			
77	TP715_0.3	Jan 20, 2023		Soil	N23-Ja0043269					X		X		X			
78	TP716_0.1	Jan 20, 2023		Soil	N23-Ja0043270					X		X		X			
79	TP718_0.3	Jan 20, 2023		Soil	N23-Ja0043271							X		X			
80	TP720_0.1	Jan 20, 2023		Soil	N23-Ja0043272					X		X		X			
81	TP721_0.3	Jan 20, 2023		Soil	N23-Ja0043273							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
82	TP723_0.1	Jan 20, 2023		Soil	N23-Ja0043274							X		X			
83	TP724_0.3	Jan 20, 2023		Soil	N23-Ja0043275					X		X		X			
84	TP726_0.1	Jan 23, 2023		Soil	N23-Ja0043276					X		X		X			
85	TP727_0.3	Jan 23, 2023		Soil	N23-Ja0043277							X		X			
86	TP728_0.3	Jan 23, 2023		Soil	N23-Ja0043278					X		X		X			
87	TP729_0.1	Jan 23, 2023		Soil	N23-Ja0043279							X		X			
88	TP730_0.3	Jan 23, 2023		Soil	N23-Ja0043280							X		X			
89	TP732_0.3	Jan 23, 2023		Soil	N23-Ja0043281					X		X		X			
90	QA01	Jan 25, 2023		Soil	N23-Ja0043282					X		X		X			
91	QA03	Jan 25, 2023		Soil	N23-Ja0043283							X		X			
92	QA04	Jan 25, 2023		Soil	N23-Ja0043284					X		X		X			
93	QA06	Jan 25, 2023		Soil	N23-Ja0043285					X		X		X			
94	QA08	Jan 25, 2023		Soil	N23-Ja0043286					X		X		X			
95	QA09	Jan 25, 2023		Soil	N23-Ja0043287							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
96	QA10	Jan 25, 2023		Soil	N23-Ja0043288							X		X			
97	QA11	Jan 25, 2023		Soil	N23-Ja0043289					X		X		X			
98	Trip BLANK18/01/23	Jan 18, 2023		Soil	N23-Ja0043290											X	
99	TRIP SPIKE 18/01/23	Jan 18, 2023		Soil	N23-Ja0043291												X
100	Trip BLANK 19/01/23	Jan 19, 2023		Soil	N23-Ja0043292											X	
101	TRIP SPIKE 19/01/23	Jan 19, 2023		Soil	N23-Ja0043293												X
102	Trip BLANK 20/01/23	Jan 20, 2023		Soil	N23-Ja0043294											X	
103	TRIP SPIKE 20/01/23	Jan 20, 2023		Soil	N23-Ja0043295												X
104	Trip Blank	Jan 23, 2023		Soil	N23-Ja0043296											X	

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
	23/01/23																
105	TRIP SPIKE 23/01/23	Jan 23, 2023		Soil	N23-Ja0043297												X
106	RINSATE BLANK 18/01/23	Jan 18, 2023		Water	N23-Ja0043298										X		
107	RINSATE BLANK 18/01/23	Jan 18, 2023		Water	N23-Ja0043299										X		
108	RINSATE BLANK 20/1/23	Jan 20, 2023		Water	N23-Ja0043300				X		X						
109	RINSATE BLANK 23/1/23	Jan 23, 2023		Water	N23-Ja0043301										X		
110	TP101_0.1	Jan 25, 2023		Soil	N23-Ja0043302		X										
111	TP102_0.1	Jan 20, 2023		Soil	N23-Ja0043303		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
112	TP103_0.5	Jan 20, 2023		Soil	N23-Ja0043304		X										
113	TP104_0.5	Jan 20, 2023		Soil	N23-Ja0043305		X										
114	TP105_0.1	Jan 20, 2023		Soil	N23-Ja0043306		X										
115	TP105_0.5	Jan 20, 2023		Soil	N23-Ja0043307		X										
116	TP106_0.5	Jan 20, 2023		Soil	N23-Ja0043308		X										
117	TP107_0.1	Jan 20, 2023		Soil	N23-Ja0043309		X										
118	TP108_0.5	Jan 20, 2023		Soil	N23-Ja0043310		X										
119	TP109_0.1	Jan 20, 2023		Soil	N23-Ja0043311		X										
120	TP110_0.5	Jan 20, 2023		Soil	N23-Ja0043312		X										
121	TP111_0.1	Jan 20, 2023		Soil	N23-Ja0043313		X										
122	TP112_0.1	Jan 20, 2023		Soil	N23-Ja0043314		X										
123	TP112_0.5	Jan 25, 2023		Soil	N23-Ja0043315		X										
124	TP113_0.1	Jan 23, 2023		Soil	N23-Ja0043316		X										
125	TP114_0.5	Jan 23, 2023		Soil	N23-Ja0043317		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
126	TP115_0.1	Jan 23, 2023		Soil	N23-Ja0043318		X										
127	TP116_0.5	Jan 23, 2023		Soil	N23-Ja0043319		X										
128	TP117_0.1	Jan 23, 2023		Soil	N23-Ja0043320		X										
129	TP201_0.5	Jan 18, 2023		Soil	N23-Ja0043321		X										
130	TP202_0.1	Jan 18, 2023		Soil	N23-Ja0043322		X										
131	TP202_0.5	Jan 18, 2023		Soil	N23-Ja0043323		X										
132	TP203_0.1	Jan 18, 2023		Soil	N23-Ja0043324		X										
133	TP204_0.1	Jan 18, 2023		Soil	N23-Ja0043325		X										
134	TP204_0.5	Jan 18, 2023		Soil	N23-Ja0043326		X										
135	TP206_0.1	Jan 18, 2023		Soil	N23-Ja0043327		X										
136	TP206_0.5	Jan 18, 2023		Soil	N23-Ja0043328		X										
137	TP207_0.1	Jan 25, 2023		Soil	N23-Ja0043329		X										
138	TP208_0.1	Jan 18, 2023		Soil	N23-Ja0043330		X										
139	TP208_0.5	Jan 18, 2023		Soil	N23-Ja0043331		X										

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Due: Feb 6, 2023
Priority: 5 Day
Contact Name: Nick Mason

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
140	TP209_0.5	Jan 18, 2023		Soil	N23-Ja0043332		X										
141	TP210_0.1	Jan 18, 2023		Soil	N23-Ja0043333		X										
142	TP211_0.5	Jan 19, 2023		Soil	N23-Ja0043334		X										
143	TP212_0.1	Jan 19, 2023		Soil	N23-Ja0043335		X										
144	TP212_0.5	Jan 19, 2023		Soil	N23-Ja0043336		X										
145	TP213_0.1	Jan 19, 2023		Soil	N23-Ja0043337		X										
146	TP214_0.5	Jan 19, 2023		Soil	N23-Ja0043338		X										
147	TP215_0.1	Jan 19, 2023		Soil	N23-Ja0043339		X										
148	TP216_0.1	Jan 19, 2023		Soil	N23-Ja0043340		X										
149	TP216_0.5	Jan 19, 2023		Soil	N23-Ja0043341		X										
150	TP301_0.5	Jan 18, 2023		Soil	N23-Ja0043342		X										
151	TP302_0.1	Jan 18, 2023		Soil	N23-Ja0043343		X										
152	TP303_0.1	Jan 18, 2023		Soil	N23-Ja0043344		X										
153	TP303_0.5	Jan 18, 2023		Soil	N23-Ja0043345		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
154	TP304_0.1	Jan 18, 2023		Soil	N23-Ja0043346		X										
155	TP305_0.5	Jan 18, 2023		Soil	N23-Ja0043347		X										
156	TP306_0.1	Jan 18, 2023		Soil	N23-Ja0043348		X										
157	TP306_0.5	Jan 18, 2023		Soil	N23-Ja0043349		X										
158	TP307_0.5	Jan 18, 2023		Soil	N23-Ja0043350		X										
159	TP308_0.1	Jan 18, 2023		Soil	N23-Ja0043351		X										
160	TP309_0.5	Jan 18, 2023		Soil	N23-Ja0043352		X										
161	TP310_0.1	Jan 18, 2023		Soil	N23-Ja0043353		X										
162	TP311_0.5	Jan 18, 2023		Soil	N23-Ja0043354		X										
163	TP312_0.1	Jan 18, 2023		Soil	N23-Ja0043355		X										
164	TP312_0.5	Jan 18, 2023		Soil	N23-Ja0043356		X										
165	TP313_0.5	Jan 18, 2023		Soil	N23-Ja0043357		X										
166	TP314_0.1	Jan 18, 2023		Soil	N23-Ja0043358		X										
167	TP315_0.5	Jan 18, 2023		Soil	N23-Ja0043359		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
168	TP316_0.1	Jan 18, 2023		Soil	N23-Ja0043360		X										
169	TP317_0.5	Jan 18, 2023		Soil	N23-Ja0043361		X										
170	TP318_0.1	Jan 18, 2023		Soil	N23-Ja0043362		X										
171	TP319_0.5	Jan 18, 2023		Soil	N23-Ja0043363		X										
172	TP320_0.1	Jan 18, 2023		Soil	N23-Ja0043364		X										
173	TP321_0.5	Jan 18, 2023		Soil	N23-Ja0043365		X										
174	TP401_0.5	Jan 19, 2023		Soil	N23-Ja0043366		X										
175	TP402_0.1	Jan 19, 2023		Soil	N23-Ja0043367		X										
176	TP402_0.5	Jan 19, 2023		Soil	N23-Ja0043368		X										
177	TP403_0.5	Jan 19, 2023		Soil	N23-Ja0043369		X										
178	TP404_0.1	Jan 19, 2023		Soil	N23-Ja0043370		X										
179	TP405_0.5	Jan 19, 2023		Soil	N23-Ja0043371		X										
180	TP406_0.1	Jan 19, 2023		Soil	N23-Ja0043372		X										
181	TP407_0.1	Jan 19, 2023		Soil	N23-Ja0043373		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
182	TP407_0.5	Jan 19, 2023		Soil	N23-Ja0043374		X										
183	TP408_0.1	Jan 19, 2023		Soil	N23-Ja0043375		X										
184	TP409_0.1	Jan 19, 2023		Soil	N23-Ja0043376		X										
185	TP410_0.5	Jan 19, 2023		Soil	N23-Ja0043377		X										
186	TP412_0.5	Jan 19, 2023		Soil	N23-Ja0043378		X										
187	TP413_0.1	Jan 19, 2023		Soil	N23-Ja0043379		X										
188	TP414_0.5	Jan 19, 2023		Soil	N23-Ja0043380		X										
189	TP415_0.1	Jan 19, 2023		Soil	N23-Ja0043381		X										
190	TP416_0.5	Jan 19, 2023		Soil	N23-Ja0043382		X										
191	TP417_0.5	Jan 19, 2023		Soil	N23-Ja0043383		X										
192	TP418_0.1	Jan 19, 2023		Soil	N23-Ja0043384		X										
193	TP418_0.5	Jan 19, 2023		Soil	N23-Ja0043385		X										
194	TP419_0.5	Jan 19, 2023		Soil	N23-Ja0043386		X										
195	TP420_0.1	Jan 23, 2023		Soil	N23-Ja0043387		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
196	TP421_0.5	Jan 23, 2023		Soil	N23-Ja0043388		X										
197	TP422_0.1	Jan 23, 2023		Soil	N23-Ja0043389		X										
198	TP423_0.5	Jan 23, 2023		Soil	N23-Ja0043390		X										
199	TP424_0.1	Jan 23, 2023		Soil	N23-Ja0043391		X										
200	TP701_0.3	Jan 20, 2023		Soil	N23-Ja0043392		X										
201	TP702_0.1	Jan 20, 2023		Soil	N23-Ja0043393		X										
202	TP703_0.1	Jan 20, 2023		Soil	N23-Ja0043394		X										
203	TP703_0.3	Jan 20, 2023		Soil	N23-Ja0043395		X										
204	TP704_0.3	Jan 20, 2023		Soil	N23-Ja0043396		X										
205	TP705_0.1	Jan 20, 2023		Soil	N23-Ja0043397		X										
206	TP705_0.3	Jan 20, 2023		Soil	N23-Ja0043398		X										
207	TP706_0.1	Jan 20, 2023		Soil	N23-Ja0043399		X										
208	TP707_0.3	Jan 20, 2023		Soil	N23-Ja0043400		X										
209	TP708_0.1	Jan 20, 2023		Soil	N23-Ja0043401		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
210	TP709_0.1	Jan 20, 2023		Soil	N23-Ja0043402		X										
211	TP709_0.3	Jan 20, 2023		Soil	N23-Ja0043403		X										
212	TP710_0.1	Jan 20, 2023		Soil	N23-Ja0043404		X										
213	TP711_0.1	Jan 20, 2023		Soil	N23-Ja0043405		X										
214	TP711_0.3	Jan 20, 2023		Soil	N23-Ja0043406		X										
215	TP712_0.3	Jan 20, 2023		Soil	N23-Ja0043407		X										
216	TP713_0.3	Jan 20, 2023		Soil	N23-Ja0043408		X										
217	TP714_0.1	Jan 20, 2023		Soil	N23-Ja0043409		X										
218	TP714_0.3	Jan 20, 2023		Soil	N23-Ja0043410		X										
219	TP715_0.1	Jan 20, 2023		Soil	N23-Ja0043411		X										
220	TP716_0.3	Jan 20, 2023		Soil	N23-Ja0043412		X										
221	TP717_0.1	Jan 20, 2023		Soil	N23-Ja0043413		X										
222	TP717_0.3	Jan 20, 2023		Soil	N23-Ja0043414		X										
223	TP718_0.1	Jan 20, 2023		Soil	N23-Ja0043415		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
224	TP719_0.1	Jan 20, 2023		Soil	N23-Ja0043416		X										
225	TP719_0.3	Jan 20, 2023		Soil	N23-Ja0043417		X										
226	TP720_0.3	Jan 20, 2023		Soil	N23-Ja0043418		X										
227	TP721_0.1	Jan 20, 2023		Soil	N23-Ja0043419		X										
228	TP722_0.1	Jan 20, 2023		Soil	N23-Ja0043420		X										
229	TP722_0.3	Jan 20, 2023		Soil	N23-Ja0043421		X										
230	TP723_0.3	Jan 20, 2023		Soil	N23-Ja0043422		X										
231	TP724_0.1	Jan 20, 2023		Soil	N23-Ja0043423		X										
232	TP725_0.1	Jan 20, 2023		Soil	N23-Ja0043424		X										
233	TP725_0.3	Jan 20, 2023		Soil	N23-Ja0043425		X										
234	TP726_0.3	Jan 23, 2023		Soil	N23-Ja0043426		X										
235	TP727_0.1	Jan 23, 2023		Soil	N23-Ja0043427		X										
236	TP728_0.1	Jan 23, 2023		Soil	N23-Ja0043428		X										
237	TP729_0.3	Jan 23, 2023		Soil	N23-Ja0043429		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
238	TP730_0.1	Jan 23, 2023		Soil	N23-Ja0043430		X										
239	TP731_0.1	Jan 23, 2023		Soil	N23-Ja0043431		X										
240	TP731_0.3	Jan 23, 2023		Soil	N23-Ja0043432		X										
241	TP732_0.1	Jan 23, 2023		Soil	N23-Ja0043433		X										
242	TP733_0.1	Jan 23, 2023		Soil	N23-Ja0043434		X										
243	TP733_0.3	Jan 23, 2023		Soil	N23-Ja0043435		X										
244	QA02	Jan 25, 2023		Soil	N23-Ja0043436		X										
245	QA05	Jan 25, 2023		Soil	N23-Ja0043437		X										
246	QA07	Jan 25, 2023		Soil	N23-Ja0043438		X										
Test Counts						2	137	2	1	46	1	97	2	96	3	4	4

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.

Units

mg/kg: milligrams per kilogram

ppm: parts per million

org/100 mL: Organisms per 100 millilitres

CFU: Colony forming unit

mg/L: milligrams per litre

ppb: parts per billion

NTU: Nephelometric Turbidity Units

µg/L: micrograms per litre

%: Percentage

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
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.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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. 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.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. 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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	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-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (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	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
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							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/kg	< 20			20	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	84			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	124			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	109			70-130	Pass	
m&p-Xylenes	%	113			70-130	Pass	
o-Xylene	%	108			70-130	Pass	
Xylenes - Total*	%	111			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	84			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	96			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	89			70-130	Pass	
Benz(a)anthracene	%	100			70-130	Pass	
Benzo(a)pyrene	%	100			70-130	Pass	
Benzo(b&j)fluoranthene	%	96			70-130	Pass	
Benzo(g.h.i)perylene	%	90			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	100			70-130	Pass	
Dibenz(a.h)anthracene	%	92			70-130	Pass	
Fluoranthene	%	94			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	92			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	95			70-130	Pass	
Pyrene	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4.4'-DDD	%	93			70-130	Pass	
4.4'-DDE	%	85			70-130	Pass	
4.4'-DDT	%	100			70-130	Pass	
a-HCH	%	84			70-130	Pass	
Aldrin	%	91			70-130	Pass	
b-HCH	%	83			70-130	Pass	
d-HCH	%	83			70-130	Pass	
Dieldrin	%	88			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	92			70-130	Pass	
Endosulfan sulphate	%	93			70-130	Pass	
Endrin	%	105			70-130	Pass	
Endrin aldehyde	%	93			70-130	Pass	
Endrin ketone	%	96			70-130	Pass	
g-HCH (Lindane)	%	79			70-130	Pass	
Heptachlor	%	95			70-130	Pass	
Heptachlor epoxide	%	92			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	92			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	83			70-130	Pass	
Dimethoate	%	91			70-130	Pass	
Ethion	%	104			70-130	Pass	
Fenitrothion	%	113			70-130	Pass	
Methyl parathion	%	97			70-130	Pass	
Mevinphos	%	91			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	94			70-130	Pass	
Aroclor-1260	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	74			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	90			80-120	Pass	
Copper	%	110			80-120	Pass	
Lead	%	111			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	91			70-130	Pass	
Naphthalene	%	86			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C10	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S23-Fe0017024	NCP	%	75			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-Fe0019165	NCP	%	94			70-130	Pass	
4.4'-DDD	S23-Fe0019165	NCP	%	86			70-130	Pass	
4.4'-DDE	S23-Fe0019165	NCP	%	88			70-130	Pass	
4.4'-DDT	S23-Fe0019165	NCP	%	114			70-130	Pass	
a-HCH	S23-Fe0019165	NCP	%	84			70-130	Pass	
Aldrin	S23-Fe0019165	NCP	%	87			70-130	Pass	
d-HCH	S23-Fe0019165	NCP	%	83			70-130	Pass	
Dieldrin	S23-Fe0019165	NCP	%	87			70-130	Pass	
Endosulfan I	S23-Fe0019165	NCP	%	81			70-130	Pass	
Endosulfan II	S23-Fe0019165	NCP	%	85			70-130	Pass	
Endosulfan sulphate	S23-Fe0019165	NCP	%	99			70-130	Pass	
Endrin	S23-Fe0019165	NCP	%	92			70-130	Pass	
Endrin aldehyde	S23-Fe0019165	NCP	%	85			70-130	Pass	
Endrin ketone	S23-Fe0019165	NCP	%	112			70-130	Pass	
g-HCH (Lindane)	S23-Fe0019165	NCP	%	84			70-130	Pass	
Heptachlor	S23-Fe0019165	NCP	%	92			70-130	Pass	
Heptachlor epoxide	S23-Fe0019165	NCP	%	88			70-130	Pass	
Hexachlorobenzene	S23-Fe0019165	NCP	%	90			70-130	Pass	
Methoxychlor	S23-Fe0019165	NCP	%	117			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S23-Fe0019165	NCP	%	92			70-130	Pass	
Methyl parathion	S23-Fe0019165	NCP	%	93			70-130	Pass	
Mevinphos	S23-Fe0019165	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S23-Fe0019165	NCP	%	85			70-130	Pass	
Aroclor-1260	S23-Fe0019165	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S23-Fe0017024	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	N23-Ja0043215	CP	%	91			70-130	Pass	
Acenaphthylene	N23-Ja0043215	CP	%	93			70-130	Pass	
Anthracene	N23-Ja0043215	CP	%	83			70-130	Pass	
Benz(a)anthracene	N23-Ja0043215	CP	%	91			70-130	Pass	
Benzo(a)pyrene	N23-Ja0043215	CP	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043215	CP	%	89			70-130	Pass	
Benzo(g.h.i)perylene	N23-Ja0043215	CP	%	89			70-130	Pass	
Benzo(k)fluoranthene	N23-Ja0043215	CP	%	106			70-130	Pass	
Chrysene	N23-Ja0043215	CP	%	95			70-130	Pass	
Dibenz(a.h)anthracene	N23-Ja0043215	CP	%	99			70-130	Pass	
Fluoranthene	N23-Ja0043215	CP	%	92			70-130	Pass	
Fluorene	N23-Ja0043215	CP	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043215	CP	%	97			70-130	Pass	
Naphthalene	N23-Ja0043215	CP	%	91			70-130	Pass	
Phenanthrene	N23-Ja0043215	CP	%	93			70-130	Pass	
Pyrene	N23-Ja0043215	CP	%	92			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	N23-Ja0043215	CP	%	89			75-125	Pass	
Cadmium	N23-Ja0043215	CP	%	89			75-125	Pass	
Chromium	N23-Ja0043215	CP	%	90			75-125	Pass	
Copper	N23-Ja0043215	CP	%	91			75-125	Pass	
Lead	N23-Ja0043215	CP	%	90			75-125	Pass	
Mercury	N23-Ja0043215	CP	%	88			75-125	Pass	
Nickel	N23-Ja0043215	CP	%	89			75-125	Pass	
Zinc	N23-Ja0043215	CP	%	92			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(g.h.i)perylene	N23-Ja0043216	CP	%	108			70-130	Pass	
Dibenz(a.h)anthracene	N23-Ja0043216	CP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043216	CP	%	111			70-130	Pass	
Phenanthrene	N23-Ja0043216	CP	%	123			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
b-HCH	N23-Ja0043216	CP	%	121			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Dimethoate	N23-Ja0043216	CP	%	77			70-130	Pass	
Ethion	N23-Ja0043216	CP	%	95			70-130	Pass	
Fenitrothion	N23-Ja0043216	CP	%	130			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	N23-Ja0043225	CP	%	82			70-130	Pass	
Acenaphthylene	N23-Ja0043225	CP	%	88			70-130	Pass	
Anthracene	N23-Ja0043225	CP	%	79			70-130	Pass	
Benz(a)anthracene	N23-Ja0043225	CP	%	78			70-130	Pass	
Benzo(a)pyrene	N23-Ja0043225	CP	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043225	CP	%	77			70-130	Pass	
Benzo(g.h.i)perylene	N23-Ja0043225	CP	%	86			70-130	Pass	
Benzo(k)fluoranthene	N23-Ja0043225	CP	%	75			70-130	Pass	
Chrysene	N23-Ja0043225	CP	%	79			70-130	Pass	
Dibenz(a.h)anthracene	N23-Ja0043225	CP	%	91			70-130	Pass	
Fluoranthene	N23-Ja0043225	CP	%	81			70-130	Pass	
Fluorene	N23-Ja0043225	CP	%	83			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043225	CP	%	89			70-130	Pass	
Naphthalene	N23-Ja0043225	CP	%	83			70-130	Pass	
Phenanthrene	N23-Ja0043225	CP	%	78			70-130	Pass	
Pyrene	N23-Ja0043225	CP	%	82			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N23-Ja0043235	CP	%	92			75-125	Pass	
Cadmium	N23-Ja0043235	CP	%	90			75-125	Pass	
Chromium	N23-Ja0043235	CP	%	80			75-125	Pass	
Copper	N23-Ja0043235	CP	%	93			75-125	Pass	
Lead	N23-Ja0043235	CP	%	99			75-125	Pass	
Mercury	N23-Ja0043235	CP	%	94			75-125	Pass	
Nickel	N23-Ja0043235	CP	%	92			75-125	Pass	
Zinc	N23-Ja0043235	CP	%	89			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 C6-C9	N23-Ja0043245	CP	%	81			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N23-Ja0043245	CP	%	84			70-130	Pass	
Toluene	N23-Ja0043245	CP	%	91			70-130	Pass	
Ethylbenzene	N23-Ja0043245	CP	%	91			70-130	Pass	
m&p-Xylenes	N23-Ja0043245	CP	%	94			70-130	Pass	
o-Xylene	N23-Ja0043245	CP	%	103			70-130	Pass	
Xylenes - Total*	N23-Ja0043245	CP	%	97			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	N23-Ja0043245	CP	%	78			70-130	Pass	
TRH C6-C10	N23-Ja0043245	CP	%	86			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N23-Ja0043245	CP	%	102			75-125	Pass	
Cadmium	N23-Ja0043245	CP	%	107			75-125	Pass	
Chromium	N23-Ja0043245	CP	%	99			75-125	Pass	
Copper	N23-Ja0043245	CP	%	95			75-125	Pass	
Lead	N23-Ja0043245	CP	%	95			75-125	Pass	
Mercury	N23-Ja0043245	CP	%	90			75-125	Pass	
Nickel	N23-Ja0043245	CP	%	95			75-125	Pass	
Zinc	N23-Ja0043245	CP	%	90			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	N23-Ja0043255	CP	%	92			70-130	Pass	
Acenaphthylene	N23-Ja0043255	CP	%	90			70-130	Pass	
Anthracene	N23-Ja0043255	CP	%	91			70-130	Pass	
Benz(a)anthracene	N23-Ja0043255	CP	%	90			70-130	Pass	
Benzo(a)pyrene	N23-Ja0043255	CP	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043255	CP	%	90			70-130	Pass	
Benzo(g.h.i)perylene	N23-Ja0043255	CP	%	87			70-130	Pass	
Benzo(k)fluoranthene	N23-Ja0043255	CP	%	95			70-130	Pass	
Chrysene	N23-Ja0043255	CP	%	93			70-130	Pass	
Dibenz(a.h)anthracene	N23-Ja0043255	CP	%	83			70-130	Pass	
Fluoranthene	N23-Ja0043255	CP	%	93			70-130	Pass	
Fluorene	N23-Ja0043255	CP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043255	CP	%	84			70-130	Pass	
Naphthalene	N23-Ja0043255	CP	%	91			70-130	Pass	
Phenanthrene	N23-Ja0043255	CP	%	90			70-130	Pass	
Pyrene	N23-Ja0043255	CP	%	92			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N23-Ja0043255	CP	%	101			75-125	Pass	
Cadmium	N23-Ja0043255	CP	%	100			75-125	Pass	
Chromium	N23-Ja0043255	CP	%	90			75-125	Pass	
Copper	N23-Ja0043255	CP	%	106			75-125	Pass	
Lead	N23-Ja0043255	CP	%	111			75-125	Pass	
Mercury	N23-Ja0043255	CP	%	100			75-125	Pass	
Nickel	N23-Ja0043255	CP	%	102			75-125	Pass	
Zinc	N23-Ja0043255	CP	%	99			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	N23-Ja0043265	CP	%	86			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	N23-Ja0043265	CP	%	93			70-130	Pass	
Anthracene	N23-Ja0043265	CP	%	83			70-130	Pass	
Benz(a)anthracene	N23-Ja0043265	CP	%	85			70-130	Pass	
Benzo(a)pyrene	N23-Ja0043265	CP	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043265	CP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	N23-Ja0043265	CP	%	99			70-130	Pass	
Benzo(k)fluoranthene	N23-Ja0043265	CP	%	80			70-130	Pass	
Chrysene	N23-Ja0043265	CP	%	83			70-130	Pass	
Dibenz(a.h)anthracene	N23-Ja0043265	CP	%	101			70-130	Pass	
Fluoranthene	N23-Ja0043265	CP	%	86			70-130	Pass	
Fluorene	N23-Ja0043265	CP	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043265	CP	%	98			70-130	Pass	
Naphthalene	N23-Ja0043265	CP	%	86			70-130	Pass	
Phenanthrene	N23-Ja0043265	CP	%	82			70-130	Pass	
Pyrene	N23-Ja0043265	CP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N23-Ja0043265	CP	%	111			75-125	Pass	
Cadmium	N23-Ja0043265	CP	%	110			75-125	Pass	
Chromium	N23-Ja0043265	CP	%	108			75-125	Pass	
Copper	N23-Ja0043265	CP	%	104			75-125	Pass	
Lead	N23-Ja0043265	CP	%	103			75-125	Pass	
Mercury	N23-Ja0043265	CP	%	93			75-125	Pass	
Nickel	N23-Ja0043265	CP	%	103			75-125	Pass	
Zinc	N23-Ja0043265	CP	%	103			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	N23-Ja0043275	CP	%	94			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N23-Ja0043275	CP	%	101			70-130	Pass	
Toluene	N23-Ja0043275	CP	%	94			70-130	Pass	
Ethylbenzene	N23-Ja0043275	CP	%	99			70-130	Pass	
m&p-Xylenes	N23-Ja0043275	CP	%	104			70-130	Pass	
o-Xylene	N23-Ja0043275	CP	%	99			70-130	Pass	
Xylenes - Total*	N23-Ja0043275	CP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	N23-Ja0043275	CP	%	77			70-130	Pass	
TRH C6-C10	N23-Ja0043275	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	N23-Ja0043285	CP	%	87			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N23-Ja0043285	CP	%	87			70-130	Pass	
Toluene	N23-Ja0043285	CP	%	90			70-130	Pass	
Ethylbenzene	N23-Ja0043285	CP	%	88			70-130	Pass	
m&p-Xylenes	N23-Ja0043285	CP	%	88			70-130	Pass	
o-Xylene	N23-Ja0043285	CP	%	83			70-130	Pass	
Xylenes - Total*	N23-Ja0043285	CP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	N23-Ja0043285	CP	%	77			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	N23-Ja0043285	CP	%	89			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N23-Ja0043285	CP	%	96			75-125	Pass	
Cadmium	N23-Ja0043285	CP	%	94			75-125	Pass	
Chromium	N23-Ja0043285	CP	%	83			75-125	Pass	
Copper	N23-Ja0043285	CP	%	99			75-125	Pass	
Lead	N23-Ja0043285	CP	%	81			75-125	Pass	
Mercury	N23-Ja0043285	CP	%	90			75-125	Pass	
Nickel	N23-Ja0043285	CP	%	96			75-125	Pass	
Zinc	N23-Ja0043285	CP	%	95			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043193	CP	%	19	18	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043195	CP	mg/kg	3.0	2.7	9.0	30%	Pass	
Cadmium	N23-Ja0043195	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043195	CP	mg/kg	9.2	9.5	3.6	30%	Pass	
Copper	N23-Ja0043195	CP	mg/kg	6.0	6.6	9.5	30%	Pass	
Lead	N23-Ja0043195	CP	mg/kg	8.0	8.1	<1	30%	Pass	
Mercury	N23-Ja0043195	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043195	CP	mg/kg	6.1	6.9	13	30%	Pass	
Zinc	N23-Ja0043195	CP	mg/kg	25	25	2.4	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043203	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043203	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043203	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043203	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043203	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043203	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043203	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043203	CP	mg/kg	7.2	9.1	24	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043203	CP	%	3.5	4.1	15	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	N23-Ja0043212	CP	uS/cm	< 10	< 10	<1	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	N23-Ja0043212	CP	pH Units	7.4	7.1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043213	CP	%	3.4	3.7	8.1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043214	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043214	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043214	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043214	CP	mg/kg	0.7	< 0.5	67	30%	Fail	Q15
Benzo(g.h.i)perylene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	N23-Ja0043214	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	N23-Ja0043214	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	N23-Ja0043214	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	N23-Ja0043214	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	N23-Ja0043214	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	N23-Ja0043214	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043214	CP	mg/kg	2.6	2.3	10.0	30%	Pass	
Cadmium	N23-Ja0043214	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043214	CP	mg/kg	5.3	< 5	14	30%	Pass	
Copper	N23-Ja0043214	CP	mg/kg	6.6	6.6	<1	30%	Pass	
Lead	N23-Ja0043214	CP	mg/kg	14	14	4.5	30%	Pass	
Mercury	N23-Ja0043214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043214	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043214	CP	mg/kg	38	39	2.8	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043216	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043216	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043216	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043216	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043216	CP	mg/kg	< 5	5.3	32	30%	Fail	Q15
Mercury	N23-Ja0043216	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043216	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043216	CP	mg/kg	19	33	55	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043221	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043221	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043221	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043221	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043221	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043221	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043221	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043221	CP	mg/kg	8.1	< 5	85	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043224	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	N23-Ja0043224	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N23-Ja0043224	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	N23-Ja0043224	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043224	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043224	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N23-Ja0043224	CP	mg/kg	< 0.5	0.5	20	30%	Pass	
Fluorene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N23-Ja0043224	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	N23-Ja0043224	CP	mg/kg	0.08	< 0.05	130	30%	Fail	Q15
Endosulfan I	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	N23-Ja0043224	CP	mg/kg	< 0.05	0.08	200	30%	Fail	Q15
Endrin aldehyde	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	N23-Ja0043224	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	N23-Ja0043224	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	N23-Ja0043224	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	N23-Ja0043224	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Tokuthion	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	N23-Ja0043224	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	N23-Ja0043224	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	N23-Ja0043224	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	N23-Ja0043224	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043224	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043224	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043224	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043224	CP	mg/kg	< 5	6.1	25	30%	Pass	
Lead	N23-Ja0043224	CP	mg/kg	32	34	5.5	30%	Pass	
Mercury	N23-Ja0043224	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043224	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043224	CP	mg/kg	87	96	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043225	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043225	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043225	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043225	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043225	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043225	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043225	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043225	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043233	CP	%	1.9	2.3	17	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043234	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043234	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043234	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043234	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043234	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043234	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043234	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043234	CP	mg/kg	5.3	< 5	13	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043243	CP	mg/kg	6.2	3.6	53	30%	Fail	Q15
Cadmium	N23-Ja0043243	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043243	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043243	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043243	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043243	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043243	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043243	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043243	CP	%	2.0	2.2	6.2	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043244	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043244	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043244	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043244	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043244	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043244	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043244	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043244	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043244	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043244	CP	mg/kg	3.8	4.2	10	30%	Pass	
Cadmium	N23-Ja0043244	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043244	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043244	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043244	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043244	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043244	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043244	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043253	CP	%	8.1	8.7	7.6	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043254	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043254	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043254	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N23-Ja0043254	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	N23-Ja0043254	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	N23-Ja0043254	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Ethoprop	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	N23-Ja0043254	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	N23-Ja0043254	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	N23-Ja0043254	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043254	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	N23-Ja0043254	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043254	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043254	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043254	CP	mg/kg	8.0	8.3	4.7	30%	Pass	
Mercury	N23-Ja0043254	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043254	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043254	CP	mg/kg	28	24	13	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043262	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043262	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043262	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043262	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043262	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043262	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043262	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043262	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043262	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043263	CP	%	20	20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043264	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043264	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043264	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043264	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043264	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043264	CP	mg/kg	24	< 2	170	30%	Fail	Q15
Cadmium	N23-Ja0043264	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043264	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043264	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043264	CP	mg/kg	13	13	2.2	30%	Pass	
Mercury	N23-Ja0043264	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043264	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043264	CP	mg/kg	21	25	21	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043273	CP	%	19	18	4.7	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043274	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043274	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043274	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043274	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043274	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043274	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043274	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043274	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043274	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043274	CP	mg/kg	2.9	2.8	4.3	30%	Pass	
Cadmium	N23-Ja0043274	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043274	CP	mg/kg	9.2	9.4	1.8	30%	Pass	
Copper	N23-Ja0043274	CP	mg/kg	12	11	13	30%	Pass	
Lead	N23-Ja0043274	CP	mg/kg	12	10	16	30%	Pass	
Mercury	N23-Ja0043274	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043274	CP	mg/kg	6.8	6.9	1.6	30%	Pass	
Zinc	N23-Ja0043274	CP	mg/kg	53	44	19	30%	Pass	

Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N23-Ja0043283	CP	%	1.4	1.1	23	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	N23-Ja0043284	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	N23-Ja0043284	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	N23-Ja0043284	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	N23-Ja0043284	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	N23-Ja0043284	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	N23-Ja0043284	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	N23-Ja0043284	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	N23-Ja0043284	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	N23-Ja0043284	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N23-Ja0043284	CP	mg/kg	4.2	3.6	13	30%	Pass	
Cadmium	N23-Ja0043284	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N23-Ja0043284	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	N23-Ja0043284	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	N23-Ja0043284	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	N23-Ja0043284	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N23-Ja0043284	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N23-Ja0043284	CP	mg/kg	10.0	12	18	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	No
Sample containers for volatile analysis received with minimal headspace	No
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
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
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Quinn Raw	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Scott Beddoes	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Inorganic
Ryan Phillips	Senior Analyst-Inorganic
Scott Beddoes	Senior Analyst-Inorganic
Fang Yee Tan	Senior Analyst-Metal

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.

Certificate of Analysis

WSP Australia P/L Newcastle
PO Box 1162
Newcastle
NSW 2300

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	**Nick Mason**
Report	**958898-W**
Project name	Hunter River HS
Project ID	PS135419
Received Date	Jan 30, 2023

Client Sample ID			**RINSATE BLANK 18/01/23**	**RINSATE BLANK 18/01/23**	**RINSATE BLANK 20/1/23**	**RINSATE BLANK 23/1/23**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**N23-Ja0043298**	**N23-Ja0043299**	**N23-Ja0043300**	**N23-Ja0043301**
Date Sampled			**Jan 18, 2023**	**Jan 18, 2023**	**Jan 20, 2023**	**Jan 23, 2023**
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	0.10	< 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
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	69	79	-	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene^{N02}	0.01	mg/L	< 0.01	< 0.01	-	< 0.01
TRH >C10-C16 less Naphthalene (F2)^{N01}	0.05	mg/L	0.06	< 0.05	-	< 0.05
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
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	0.05	mg/L	0.06	< 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

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Sydney	Feb 13, 2023	7 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Sydney	Feb 13, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Feb 13, 2023	7 Days
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Feb 13, 2023	7 Days

Company Name: WSP Australia P/L Newcastle
Address: PO Box 1162
Newcastle
NSW 2300

Project Name: Hunter River HS
Project ID: PS135419

Order No.:
Report #: 958898
Phone: 02 4929 8300
Fax: 02 4929 7299

Received: Jan 30, 2023 8:30 AM
Due: Feb 6, 2023
Priority: 5 Day
Contact Name: Nick Mason

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	TP101_0.5	Jan 20, 2023		Soil	N23-Ja0043193					X		X		X			
2	TP102_0.5	Jan 20, 2023		Soil	N23-Ja0043194							X		X			
3	TP103_0.1	Jan 20, 2023		Soil	N23-Ja0043195					X		X		X			
4	TP103_0.2	Jan 20, 2023		Soil	N23-Ja0043196							X		X			
5	TP104_0.1	Jan 20, 2023		Soil	N23-Ja0043197					X		X		X			
6	TP106_0.1	Jan 20, 2023		Soil	N23-Ja0043198					X		X		X			
7	TP107_0.5	Jan 20, 2023		Soil	N23-Ja0043199							X		X			
8	TP108_0.1	Jan 20, 2023		Soil	N23-Ja0043200							X		X			
9	TP109_0.5	Jan 20, 2023		Soil	N23-Ja0043201					X		X		X			
10	TP110_0.1	Jan 20, 2023		Soil	N23-Ja0043202							X		X			
11	TP111_0.5	Jan 20, 2023		Soil	N23-Ja0043203							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
12	TP113_0.5	Jan 23, 2023		Soil	N23-Ja0043204					X		X		X			
13	TP114_0.1	Jan 23, 2023		Soil	N23-Ja0043205							X		X			
14	TP115_0.5	Jan 23, 2023		Soil	N23-Ja0043206					X		X		X			
15	TP116_0.1	Jan 23, 2023		Soil	N23-Ja0043207							X		X			
16	TP117_0.5	Jan 23, 2023		Soil	N23-Ja0043208					X		X		X			
17	TP201_0.1	Jan 18, 2023		Soil	N23-Ja0043209					X		X		X			
18	TP203_0.5	Jan 18, 2023		Soil	N23-Ja0043210							X		X			
19	TP205_0.1	Jan 18, 2023		Soil	N23-Ja0043211					X		X		X			
20	TP205_0.5	Jan 18, 2023		Soil	N23-Ja0043212	X		X				X	X				
21	TP207_0.5	Jan 18, 2023		Soil	N23-Ja0043213							X		X			
22	TP209_0.1	Jan 18, 2023		Soil	N23-Ja0043214					X		X		X			
23	TP210_0.5	Jan 18, 2023		Soil	N23-Ja0043215							X		X			
24	TP211_0.1	Jan 25, 2023		Soil	N23-Ja0043216					X		X		X			
25	TP213_0.5	Jan 19, 2023		Soil	N23-Ja0043217							X		X			

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Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
26	TP214_0.1	Jan 19, 2023		Soil	N23-Ja0043218					X		X		X			
27	TP215_0.5	Jan 19, 2023		Soil	N23-Ja0043219							X		X			
28	TP301_0.1	Jan 25, 2023		Soil	N23-Ja0043220					X		X		X			
29	TP302_0.5	Jan 18, 2023		Soil	N23-Ja0043221							X		X			
30	TP304_0.5	Jan 18, 2023		Soil	N23-Ja0043222					X		X		X			
31	TP305_0.1	Jan 18, 2023		Soil	N23-Ja0043223							X		X			
32	TP307_0.1	Jan 18, 2023		Soil	N23-Ja0043224							X		X			
33	TP308_0.5	Jan 18, 2023		Soil	N23-Ja0043225					X		X		X			
34	TP309_0.1	Jan 18, 2023		Soil	N23-Ja0043226							X		X			
35	TP310_0.5	Jan 18, 2023		Soil	N23-Ja0043227	X		X		X		X	X	X			
36	TP311_0.1	Jan 18, 2023		Soil	N23-Ja0043228							X		X			
37	TP313_0.1	Jan 18, 2023		Soil	N23-Ja0043229							X		X			
38	TP314_0.5	Jan 18, 2023		Soil	N23-Ja0043230					X		X		X			
39	TP315_0.1	Jan 25, 2023		Soil	N23-Ja0043231					X		X		X			

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Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
40	TP316_0.5	Jan 18, 2023		Soil	N23-Ja0043232							X		X			
41	TP317_0.1	Jan 18, 2023		Soil	N23-Ja0043233							X		X			
42	TP318_0.5	Jan 18, 2023		Soil	N23-Ja0043234					X		X		X			
43	TP319_0.1	Jan 18, 2023		Soil	N23-Ja0043235							X		X			
44	TP320_0.5	Jan 18, 2023		Soil	N23-Ja0043236							X		X			
45	TP321_0.1	Jan 18, 2023		Soil	N23-Ja0043237							X		X			
46	TP401_0.1	Jan 19, 2023		Soil	N23-Ja0043238					X		X		X			
47	TP403_0.1	Jan 19, 2023		Soil	N23-Ja0043239							X		X			
48	TP404_0.5	Jan 19, 2023		Soil	N23-Ja0043240					X		X		X			
49	TP405_0.1	Jan 19, 2023		Soil	N23-Ja0043241							X		X			
50	TP406_0.5	Jan 19, 2023		Soil	N23-Ja0043242					X		X		X			
51	TP408_0.5	Jan 19, 2023		Soil	N23-Ja0043243							X		X			
52	TP409_0.5	Jan 19, 2023		Soil	N23-Ja0043244					X		X		X			
53	TP410_0.1	Jan 25, 2023		Soil	N23-Ja0043245							X		X			

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Fax: 02 4929 7299

Received: Jan 30, 2023 8:30 AM
Due: Feb 6, 2023
Priority: 5 Day
Contact Name: Nick Mason

Project Name: Hunter River HS
Project ID: PS135419

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
54	TP411_0.1	Jan 19, 2023		Soil	N23-Ja0043246					X		X		X			
55	TP411_0.5	Jan 19, 2023		Soil	N23-Ja0043247							X		X			
56	TP412_0.1	Jan 19, 2023		Soil	N23-Ja0043248					X		X		X			
57	TP413_0.5	Jan 19, 2023		Soil	N23-Ja0043249					X		X		X			
58	TP414_0.1	Jan 19, 2023		Soil	N23-Ja0043250							X		X			
59	TP415_0.5	Jan 19, 2023		Soil	N23-Ja0043251							X		X			
60	TP416_0.1	Jan 19, 2023		Soil	N23-Ja0043252					X		X		X			
61	TP417_0.1	Jan 25, 2023		Soil	N23-Ja0043253					X		X		X			
62	TP419_0.1	Jan 19, 2023		Soil	N23-Ja0043254							X		X			
63	TP420_0.5	Jan 23, 2023		Soil	N23-Ja0043255							X		X			
64	TP421_0.1	Jan 23, 2023		Soil	N23-Ja0043256					X		X		X			
65	TP422_0.5	Jan 23, 2023		Soil	N23-Ja0043257					X		X		X			
66	TP423_0.1	Jan 23, 2023		Soil	N23-Ja0043258							X		X			
67	TP424_0.5	Jan 23, 2023		Soil	N23-Ja0043259							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
68	TP701_0.1	Jan 25, 2023		Soil	N23-Ja0043260					X		X		X			
69	TP702_0.3	Jan 20, 2023		Soil	N23-Ja0043261							X		X			
70	TP704_0.1	Jan 25, 2023		Soil	N23-Ja0043262					X		X		X			
71	TP706_0.3	Jan 20, 2023		Soil	N23-Ja0043263							X		X			
72	TP707_0.1	Jan 20, 2023		Soil	N23-Ja0043264							X		X			
73	TP708_0.3	Jan 20, 2023		Soil	N23-Ja0043265							X		X			
74	TP710_0.3	Jan 20, 2023		Soil	N23-Ja0043266							X		X			
75	TP712_0.1	Jan 20, 2023		Soil	N23-Ja0043267					X		X		X			
76	TP713_0.1	Jan 20, 2023		Soil	N23-Ja0043268							X		X			
77	TP715_0.3	Jan 20, 2023		Soil	N23-Ja0043269					X		X		X			
78	TP716_0.1	Jan 20, 2023		Soil	N23-Ja0043270					X		X		X			
79	TP718_0.3	Jan 20, 2023		Soil	N23-Ja0043271							X		X			
80	TP720_0.1	Jan 20, 2023		Soil	N23-Ja0043272					X		X		X			
81	TP721_0.3	Jan 20, 2023		Soil	N23-Ja0043273							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
82	TP723_0.1	Jan 20, 2023		Soil	N23-Ja0043274							X		X			
83	TP724_0.3	Jan 20, 2023		Soil	N23-Ja0043275					X		X		X			
84	TP726_0.1	Jan 23, 2023		Soil	N23-Ja0043276					X		X		X			
85	TP727_0.3	Jan 23, 2023		Soil	N23-Ja0043277							X		X			
86	TP728_0.3	Jan 23, 2023		Soil	N23-Ja0043278					X		X		X			
87	TP729_0.1	Jan 23, 2023		Soil	N23-Ja0043279							X		X			
88	TP730_0.3	Jan 23, 2023		Soil	N23-Ja0043280							X		X			
89	TP732_0.3	Jan 23, 2023		Soil	N23-Ja0043281					X		X		X			
90	QA01	Jan 25, 2023		Soil	N23-Ja0043282					X		X		X			
91	QA03	Jan 25, 2023		Soil	N23-Ja0043283							X		X			
92	QA04	Jan 25, 2023		Soil	N23-Ja0043284					X		X		X			
93	QA06	Jan 25, 2023		Soil	N23-Ja0043285					X		X		X			
94	QA08	Jan 25, 2023		Soil	N23-Ja0043286					X		X		X			
95	QA09	Jan 25, 2023		Soil	N23-Ja0043287							X		X			

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
96	QA10	Jan 25, 2023		Soil	N23-Ja0043288							X		X			
97	QA11	Jan 25, 2023		Soil	N23-Ja0043289					X		X		X			
98	Trip BLANK18/01/23	Jan 18, 2023		Soil	N23-Ja0043290											X	
99	TRIP SPIKE 18/01/23	Jan 18, 2023		Soil	N23-Ja0043291												X
100	Trip BLANK 19/01/23	Jan 19, 2023		Soil	N23-Ja0043292											X	
101	TRIP SPIKE 19/01/23	Jan 19, 2023		Soil	N23-Ja0043293												X
102	Trip BLANK 20/01/23	Jan 20, 2023		Soil	N23-Ja0043294											X	
103	TRIP SPIKE 20/01/23	Jan 20, 2023		Soil	N23-Ja0043295												X
104	Trip Blank	Jan 23, 2023		Soil	N23-Ja0043296											X	

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
	23/01/23																
105	TRIP SPIKE 23/01/23	Jan 23, 2023		Soil	N23-Ja0043297												X
106	RINSATE BLANK 18/01/23	Jan 18, 2023		Water	N23-Ja0043298										X		
107	RINSATE BLANK 18/01/23	Jan 18, 2023		Water	N23-Ja0043299										X		
108	RINSATE BLANK 20/1/23	Jan 20, 2023		Water	N23-Ja0043300				X		X						
109	RINSATE BLANK 23/1/23	Jan 23, 2023		Water	N23-Ja0043301										X		
110	TP101_0.1	Jan 25, 2023		Soil	N23-Ja0043302		X										
111	TP102_0.1	Jan 20, 2023		Soil	N23-Ja0043303		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
112	TP103_0.5	Jan 20, 2023		Soil	N23-Ja0043304		X										
113	TP104_0.5	Jan 20, 2023		Soil	N23-Ja0043305		X										
114	TP105_0.1	Jan 20, 2023		Soil	N23-Ja0043306		X										
115	TP105_0.5	Jan 20, 2023		Soil	N23-Ja0043307		X										
116	TP106_0.5	Jan 20, 2023		Soil	N23-Ja0043308		X										
117	TP107_0.1	Jan 20, 2023		Soil	N23-Ja0043309		X										
118	TP108_0.5	Jan 20, 2023		Soil	N23-Ja0043310		X										
119	TP109_0.1	Jan 20, 2023		Soil	N23-Ja0043311		X										
120	TP110_0.5	Jan 20, 2023		Soil	N23-Ja0043312		X										
121	TP111_0.1	Jan 20, 2023		Soil	N23-Ja0043313		X										
122	TP112_0.1	Jan 20, 2023		Soil	N23-Ja0043314		X										
123	TP112_0.5	Jan 25, 2023		Soil	N23-Ja0043315		X										
124	TP113_0.1	Jan 23, 2023		Soil	N23-Ja0043316		X										
125	TP114_0.5	Jan 23, 2023		Soil	N23-Ja0043317		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
126	TP115_0.1	Jan 23, 2023		Soil	N23-Ja0043318		X										
127	TP116_0.5	Jan 23, 2023		Soil	N23-Ja0043319		X										
128	TP117_0.1	Jan 23, 2023		Soil	N23-Ja0043320		X										
129	TP201_0.5	Jan 18, 2023		Soil	N23-Ja0043321		X										
130	TP202_0.1	Jan 18, 2023		Soil	N23-Ja0043322		X										
131	TP202_0.5	Jan 18, 2023		Soil	N23-Ja0043323		X										
132	TP203_0.1	Jan 18, 2023		Soil	N23-Ja0043324		X										
133	TP204_0.1	Jan 18, 2023		Soil	N23-Ja0043325		X										
134	TP204_0.5	Jan 18, 2023		Soil	N23-Ja0043326		X										
135	TP206_0.1	Jan 18, 2023		Soil	N23-Ja0043327		X										
136	TP206_0.5	Jan 18, 2023		Soil	N23-Ja0043328		X										
137	TP207_0.1	Jan 25, 2023		Soil	N23-Ja0043329		X										
138	TP208_0.1	Jan 18, 2023		Soil	N23-Ja0043330		X										
139	TP208_0.5	Jan 18, 2023		Soil	N23-Ja0043331		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
140	TP209_0.5	Jan 18, 2023		Soil	N23-Ja0043332		X										
141	TP210_0.1	Jan 18, 2023		Soil	N23-Ja0043333		X										
142	TP211_0.5	Jan 19, 2023		Soil	N23-Ja0043334		X										
143	TP212_0.1	Jan 19, 2023		Soil	N23-Ja0043335		X										
144	TP212_0.5	Jan 19, 2023		Soil	N23-Ja0043336		X										
145	TP213_0.1	Jan 19, 2023		Soil	N23-Ja0043337		X										
146	TP214_0.5	Jan 19, 2023		Soil	N23-Ja0043338		X										
147	TP215_0.1	Jan 19, 2023		Soil	N23-Ja0043339		X										
148	TP216_0.1	Jan 19, 2023		Soil	N23-Ja0043340		X										
149	TP216_0.5	Jan 19, 2023		Soil	N23-Ja0043341		X										
150	TP301_0.5	Jan 18, 2023		Soil	N23-Ja0043342		X										
151	TP302_0.1	Jan 18, 2023		Soil	N23-Ja0043343		X										
152	TP303_0.1	Jan 18, 2023		Soil	N23-Ja0043344		X										
153	TP303_0.5	Jan 18, 2023		Soil	N23-Ja0043345		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
154	TP304_0.1	Jan 18, 2023		Soil	N23-Ja0043346		X										
155	TP305_0.5	Jan 18, 2023		Soil	N23-Ja0043347		X										
156	TP306_0.1	Jan 18, 2023		Soil	N23-Ja0043348		X										
157	TP306_0.5	Jan 18, 2023		Soil	N23-Ja0043349		X										
158	TP307_0.5	Jan 18, 2023		Soil	N23-Ja0043350		X										
159	TP308_0.1	Jan 18, 2023		Soil	N23-Ja0043351		X										
160	TP309_0.5	Jan 18, 2023		Soil	N23-Ja0043352		X										
161	TP310_0.1	Jan 18, 2023		Soil	N23-Ja0043353		X										
162	TP311_0.5	Jan 18, 2023		Soil	N23-Ja0043354		X										
163	TP312_0.1	Jan 18, 2023		Soil	N23-Ja0043355		X										
164	TP312_0.5	Jan 18, 2023		Soil	N23-Ja0043356		X										
165	TP313_0.5	Jan 18, 2023		Soil	N23-Ja0043357		X										
166	TP314_0.1	Jan 18, 2023		Soil	N23-Ja0043358		X										
167	TP315_0.5	Jan 18, 2023		Soil	N23-Ja0043359		X										

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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
168	TP316_0.1	Jan 18, 2023		Soil	N23-Ja0043360		X										
169	TP317_0.5	Jan 18, 2023		Soil	N23-Ja0043361		X										
170	TP318_0.1	Jan 18, 2023		Soil	N23-Ja0043362		X										
171	TP319_0.5	Jan 18, 2023		Soil	N23-Ja0043363		X										
172	TP320_0.1	Jan 18, 2023		Soil	N23-Ja0043364		X										
173	TP321_0.5	Jan 18, 2023		Soil	N23-Ja0043365		X										
174	TP401_0.5	Jan 19, 2023		Soil	N23-Ja0043366		X										
175	TP402_0.1	Jan 19, 2023		Soil	N23-Ja0043367		X										
176	TP402_0.5	Jan 19, 2023		Soil	N23-Ja0043368		X										
177	TP403_0.5	Jan 19, 2023		Soil	N23-Ja0043369		X										
178	TP404_0.1	Jan 19, 2023		Soil	N23-Ja0043370		X										
179	TP405_0.5	Jan 19, 2023		Soil	N23-Ja0043371		X										
180	TP406_0.1	Jan 19, 2023		Soil	N23-Ja0043372		X										
181	TP407_0.1	Jan 19, 2023		Soil	N23-Ja0043373		X										

Company Name: WSP Australia P/L Newcastle
Address: PO Box 1162
Newcastle
NSW 2300

Project Name: Hunter River HS
Project ID: PS135419

Order No.:
Report #: 958898
Phone: 02 4929 8300
Fax: 02 4929 7299

Received: Jan 30, 2023 8:30 AM
Due: Feb 6, 2023
Priority: 5 Day
Contact Name: Nick Mason

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
182	TP407_0.5	Jan 19, 2023		Soil	N23-Ja0043374		X										
183	TP408_0.1	Jan 19, 2023		Soil	N23-Ja0043375		X										
184	TP409_0.1	Jan 19, 2023		Soil	N23-Ja0043376		X										
185	TP410_0.5	Jan 19, 2023		Soil	N23-Ja0043377		X										
186	TP412_0.5	Jan 19, 2023		Soil	N23-Ja0043378		X										
187	TP413_0.1	Jan 19, 2023		Soil	N23-Ja0043379		X										
188	TP414_0.5	Jan 19, 2023		Soil	N23-Ja0043380		X										
189	TP415_0.1	Jan 19, 2023		Soil	N23-Ja0043381		X										
190	TP416_0.5	Jan 19, 2023		Soil	N23-Ja0043382		X										
191	TP417_0.5	Jan 19, 2023		Soil	N23-Ja0043383		X										
192	TP418_0.1	Jan 19, 2023		Soil	N23-Ja0043384		X										
193	TP418_0.5	Jan 19, 2023		Soil	N23-Ja0043385		X										
194	TP419_0.5	Jan 19, 2023		Soil	N23-Ja0043386		X										
195	TP420_0.1	Jan 23, 2023		Soil	N23-Ja0043387		X										

Company Name:	WSP Australia P/L Newcastle	**Order No.:**		**Received:**	Jan 30, 2023 8:30 AM
Address:	PO Box 1162 Newcastle NSW 2300	**Report #:**	958898	**Due:**	Feb 6, 2023
		Phone:	02 4929 8300	**Priority:**	5 Day
		Fax:	02 4929 7299	**Contact Name:**	Nick Mason
Project Name:	Hunter River HS				
Project ID:	PS135419				

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
196	TP421_0.5	Jan 23, 2023		Soil	N23-Ja0043388		X										
197	TP422_0.1	Jan 23, 2023		Soil	N23-Ja0043389		X										
198	TP423_0.5	Jan 23, 2023		Soil	N23-Ja0043390		X										
199	TP424_0.1	Jan 23, 2023		Soil	N23-Ja0043391		X										
200	TP701_0.3	Jan 20, 2023		Soil	N23-Ja0043392		X										
201	TP702_0.1	Jan 20, 2023		Soil	N23-Ja0043393		X										
202	TP703_0.1	Jan 20, 2023		Soil	N23-Ja0043394		X										
203	TP703_0.3	Jan 20, 2023		Soil	N23-Ja0043395		X										
204	TP704_0.3	Jan 20, 2023		Soil	N23-Ja0043396		X										
205	TP705_0.1	Jan 20, 2023		Soil	N23-Ja0043397		X										
206	TP705_0.3	Jan 20, 2023		Soil	N23-Ja0043398		X										
207	TP706_0.1	Jan 20, 2023		Soil	N23-Ja0043399		X										
208	TP707_0.3	Jan 20, 2023		Soil	N23-Ja0043400		X										
209	TP708_0.1	Jan 20, 2023		Soil	N23-Ja0043401		X										

Company Name: WSP Australia P/L Newcastle
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Received: Jan 30, 2023 8:30 AM
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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
210	TP709_0.1	Jan 20, 2023		Soil	N23-Ja0043402		X										
211	TP709_0.3	Jan 20, 2023		Soil	N23-Ja0043403		X										
212	TP710_0.1	Jan 20, 2023		Soil	N23-Ja0043404		X										
213	TP711_0.1	Jan 20, 2023		Soil	N23-Ja0043405		X										
214	TP711_0.3	Jan 20, 2023		Soil	N23-Ja0043406		X										
215	TP712_0.3	Jan 20, 2023		Soil	N23-Ja0043407		X										
216	TP713_0.3	Jan 20, 2023		Soil	N23-Ja0043408		X										
217	TP714_0.1	Jan 20, 2023		Soil	N23-Ja0043409		X										
218	TP714_0.3	Jan 20, 2023		Soil	N23-Ja0043410		X										
219	TP715_0.1	Jan 20, 2023		Soil	N23-Ja0043411		X										
220	TP716_0.3	Jan 20, 2023		Soil	N23-Ja0043412		X										
221	TP717_0.1	Jan 20, 2023		Soil	N23-Ja0043413		X										
222	TP717_0.3	Jan 20, 2023		Soil	N23-Ja0043414		X										
223	TP718_0.1	Jan 20, 2023		Soil	N23-Ja0043415		X										

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						% Clay	HOLD	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Eurofins Suite B15	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
224	TP719_0.1	Jan 20, 2023		Soil	N23-Ja0043416		X										
225	TP719_0.3	Jan 20, 2023		Soil	N23-Ja0043417		X										
226	TP720_0.3	Jan 20, 2023		Soil	N23-Ja0043418		X										
227	TP721_0.1	Jan 20, 2023		Soil	N23-Ja0043419		X										
228	TP722_0.1	Jan 20, 2023		Soil	N23-Ja0043420		X										
229	TP722_0.3	Jan 20, 2023		Soil	N23-Ja0043421		X										
230	TP723_0.3	Jan 20, 2023		Soil	N23-Ja0043422		X										
231	TP724_0.1	Jan 20, 2023		Soil	N23-Ja0043423		X										
232	TP725_0.1	Jan 20, 2023		Soil	N23-Ja0043424		X										
233	TP725_0.3	Jan 20, 2023		Soil	N23-Ja0043425		X										
234	TP726_0.3	Jan 23, 2023		Soil	N23-Ja0043426		X										
235	TP727_0.1	Jan 23, 2023		Soil	N23-Ja0043427		X										
236	TP728_0.1	Jan 23, 2023		Soil	N23-Ja0043428		X										
237	TP729_0.3	Jan 23, 2023		Soil	N23-Ja0043429		X										

Company Name: WSP Australia P/L Newcastle
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Melbourne Laboratory - NATA # 1261 Site # 1254									X		X		X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X											
238	TP730_0.1	Jan 23, 2023		Soil	N23-Ja0043430		X										
239	TP731_0.1	Jan 23, 2023		Soil	N23-Ja0043431		X										
240	TP731_0.3	Jan 23, 2023		Soil	N23-Ja0043432		X										
241	TP732_0.1	Jan 23, 2023		Soil	N23-Ja0043433		X										
242	TP733_0.1	Jan 23, 2023		Soil	N23-Ja0043434		X										
243	TP733_0.3	Jan 23, 2023		Soil	N23-Ja0043435		X										
244	QA02	Jan 25, 2023		Soil	N23-Ja0043436		X										
245	QA05	Jan 25, 2023		Soil	N23-Ja0043437		X										
246	QA07	Jan 25, 2023		Soil	N23-Ja0043438		X										
Test Counts						2	137	2	1	46	1	97	2	96	3	4	4

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.

Units

mg/kg: milligrams per kilogram

ppm: parts per million

org/100 mL: Organisms per 100 millilitres

CFU: Colony forming unit

mg/L: milligrams per litre

ppb: parts per billion

NTU: Nephelometric Turbidity Units

µg/L: micrograms per litre

%: Percentage

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
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.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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. 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.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. 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									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
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	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
TRH C10-C14			%	121			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH >C10-C16			%	115			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S23-Fe0005254	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S23-Fe0005254	NCP	%	86			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	S23-Fe0005253	NCP	mg/L	0.14	< 0.05	130	30%	Fail	Q15
TRH C15-C28	S23-Fe0005253	NCP	mg/L	0.4	0.2	81	30%	Fail	Q15
TRH C29-C36	S23-Fe0005253	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S23-Fe0005253	NCP	mg/L	0.18	0.06	100	30%	Fail	Q15
TRH >C16-C34	S23-Fe0005253	NCP	mg/L	0.4	0.2	76	30%	Fail	Q15
TRH >C34-C40	S23-Fe0005253	NCP	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	No
Sample containers for volatile analysis received with minimal headspace	No
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.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Quinn Raw	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile

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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eurofins | Environment Testing

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IANZ# 1290

Sample Receipt Advice

Company name:	WSP Australia P/L Newcastle
Contact name:	Nick Mason
Project name:	ADDITIONAL: HUNTER RIVER HS
Project ID:	ADDITIONAL: PS135419
Turnaround time:	5 Day
Date/Time received	Feb 22, 2023 3:51 PM
Eurofins reference	966764

Sample Information

✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 9.1 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

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Nick Mason - nicholas.mason@wsp.com.

Note: A copy of these results will also be delivered to the general WSP Australia P/L Newcastle email address.

Global Leader - Results you can trust

Certificate of Analysis

WSP Australia P/L Newcastle
PO Box 1162
Newcastle
NSW 2300

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Nick Mason**

Report **966764-L**
Project name ADDITIONAL: HUNTER RIVER HS
Project ID ADDITIONAL: PS135419
Received Date Feb 22, 2023

Client Sample ID			**TP106_0.1**	**TP108_0.1**	**TP321_0.1**	**TP108_0.1**
Sample Matrix			**AUS Leachate**	**AUS Leachate**	**AUS Leachate**	**US Leachate**
Eurofins Sample No.			**S23-Fe0057801**	**S23-Fe0057802**	**S23-Fe0057803**	**S23-Fe0057804**
Date Sampled			**Jan 20, 2023**	**Jan 20, 2023**	**Jan 18, 2023**	**Jan 20, 2023**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	0.002	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	0.002	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	0.003	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	0.004	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	0.005	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	0.004	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	0.005	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	0.003	-
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	0.004	-
Total PAH*	0.001	mg/L	< 0.001	< 0.001	0.032	-
2-Fluorobiphenyl (surr.)	1	%	INT	INT	INT	-
p-Terphenyl-d14 (surr.)	1	%	84	89	127	-
Benzo(a)pyrene	0.001	mg/L	-	-	-	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	4.0	4.0	4.0	-
pH (initial)	0.1	pH Units	6.5	6.9	6.9	-
pH (Leachate fluid)	0.1	pH Units	6.5	6.5	6.5	-
pH (off)	0.1	pH Units	6.2	5.7	6.3	-
USA Leaching Procedure						
Leachate Fluid[C01]		comment	-	-	-	1.0
pH (initial)	0.1	pH Units	-	-	-	6.6
pH (off)	0.1	pH Units	-	-	-	5.1
pH (USA HCl addition)	0.1	pH Units	-	-	-	2.3

Client Sample ID			**TP321_0.1**
Sample Matrix			**US Leachate**
Eurofins Sample No.			**S23-Fe0057805**
Date Sampled			**Jan 18, 2023**
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	0.002
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	0.002
Total PAH*	0.001	mg/L	0.009
2-Fluorobiphenyl (surr.)	1	%	INT
p-Terphenyl-d14 (surr.)	1	%	95
USA Leaching Procedure			
Leachate Fluid[C01]		comment	1.0
pH (initial)	0.1	pH Units	7.5
pH (off)	0.1	pH Units	5.1
pH (USA HCl addition)	0.1	pH Units	2.3

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Sydney	Feb 24, 2023	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
AUS Leaching Procedure	Sydney	Feb 24, 2023	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
USA Leaching Procedure	Sydney	Feb 24, 2023	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

Company Name: WSP Australia P/L Newcastle
Address: PO Box 1162
Newcastle
NSW 2300

Order No.:
Report #: 966764
Phone: 02 4929 8300
Fax: 02 4929 7299

Received: Feb 22, 2023 3:51 PM
Due: Mar 1, 2023
Priority: 5 Day
Contact Name: Nick Mason

Project Name: ADDITIONAL: HUNTER RIVER HS
Project ID: ADDITIONAL: PS135419

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Benzo(a)pyrene	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TP106_0.1	Jan 20, 2023		AUS Leachate	S23-Fe0057801		X	X	
2	TP108_0.1	Jan 20, 2023		AUS Leachate	S23-Fe0057802		X	X	
3	TP321_0.1	Jan 18, 2023		AUS Leachate	S23-Fe0057803		X	X	
4	TP108_0.1	Jan 20, 2023		US Leachate	S23-Fe0057804	X			X
5	TP321_0.1	Jan 18, 2023		US Leachate	S23-Fe0057805		X		X
Test Counts						1	4	3	2

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.

Units

mg/kg: milligrams per kilogram

ppm: parts per million

org/100 mL: Organisms per 100 millilitres

CFU: Colony forming unit

mg/L: milligrams per litre

ppb: parts per billion

NTU: Nephelometric Turbidity Units

µg/L: micrograms per litre

%: Percentage

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
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.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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. 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.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. 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/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	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	120			70-130	Pass	
Acenaphthylene	%	122			70-130	Pass	
Anthracene	%	114			70-130	Pass	
Benz(a)anthracene	%	86			70-130	Pass	
Benzo(a)pyrene	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	%	90			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	100			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a.h)anthracene	%	98			70-130	Pass	
Fluoranthene	%	102			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	92			70-130	Pass	
Naphthalene	%	109			70-130	Pass	
Phenanthrene	%	112			70-130	Pass	
Pyrene	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S23-Fe0063574	NCP	%	103			70-130	Pass	
Acenaphthylene	S23-Fe0063574	NCP	%	104			70-130	Pass	
Anthracene	S23-Fe0063574	NCP	%	116			70-130	Pass	
Benz(a)anthracene	S23-Fe0063574	NCP	%	104			70-130	Pass	
Benzo(a)pyrene	S23-Fe0063574	NCP	%	118			70-130	Pass	
Benzo(b&j)fluoranthene	S23-Fe0063574	NCP	%	110			70-130	Pass	
Benzo(g.h.i)perylene	S23-Fe0063574	NCP	%	135			70-130	Fail	Q08
Benzo(k)fluoranthene	S23-Fe0063574	NCP	%	126			70-130	Pass	
Chrysene	S23-Fe0063574	NCP	%	127			70-130	Pass	
Dibenz(a.h)anthracene	S23-Fe0063574	NCP	%	118			70-130	Pass	
Fluoranthene	S23-Fe0063574	NCP	%	114			70-130	Pass	
Fluorene	S23-Fe0063574	NCP	%	117			70-130	Pass	

Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Indeno(1.2.3-cd)pyrene	S23-Fe0063574	NCP	%	118			70-130	Pass	
Naphthalene	S23-Fe0063574	NCP	%	87			70-130	Pass	
Phenanthrene	S23-Fe0063574	NCP	%	107			70-130	Pass	
Pyrene	S23-Fe0063574	NCP	%	116			70-130	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	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S23-Ma0005636	NCP	mg/L	< 0.001	< 0.001	<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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
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:

Andrew Black	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-Organic

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.

From: Mason, Nicholas <Nicholas.Mason@wsp.com>
Sent: Tuesday, 31 January 2023 11:10 AM
To: Andrew Black <AndrewBlack@eurofins.com>
Subject: RE: Eurofins Sample Receipt Advice - Report 958898 : Site Hunter River HS (PS135419)

Thanks Andrew,

SRA look good, thanks for the adjustment to B7

Re the inter-lab samples, can you please send the following to ALS with the following analysis to be completed

		TRH, BTEXN, PAH, M8	OCP, OPP, PCB
1	QA01A	X	X
2	QA02A		
3	QA03A	X	
4	QA04A	X	X
5	QA05A		
6	QA06A	X	X
7	QA07A		
8	QA08A	X	X
9	QA09A	X	
10	QA10A	X	
11	QA11A	X	X

Environmental Division
Sydney
Work Order Reference
ES2303326
Telephone : + 61-2-8784 8555

I'll send them a COC as well

Can you please let me know if there are any issues locating or transferring these

Thanks again,

Cheers

Nicholas Mason
Consulting Environmental Engineer
B.Eng (Env) (Hons)
Licensed Asbestos Assessor LAA001519

T+ 61 2 4929 8331
M+ 61 407 080 483

in

WSP Australia Pty Limited
Level 3

rec: TAD: 2/2/23
1:10pm

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2303326**	Page	: 1 of 11
Client	: **WSP Australia Pty Ltd**	Laboratory	: Environmental Division Sydney
Contact	: NICHOLAS MASON	Contact	: Cez Bautista
Address	: PO BOX 1162 NEWCASTLE NSW, AUSTRALIA 2300	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: Hunter River High School TESA	Date Samples Received	: 02-Feb-2023 13:10
Order number	: PS135419	Date Analysis Commenced	: 03-Feb-2023
C-O-C number	: ----	Issue Date	: 08-Feb-2023 17:11
Sampler	: GL, NICHOLAS MASON		
Site	: ----		
Quote number	: EN/008/21		
No. of samples received	: 11		
No. of samples analysed	: 8		

ilac-MRA NATA

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key :
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			*Sample ID*	**QA01A**	**QA03A**	**QA04A**	**QA06A**	**QA08A**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00
Compound	*CAS Number*	*LOR*	*Unit*	**ES2303326-001**	**ES2303326-003**	**ES2303326-004**	**ES2303326-006**	**ES2303326-008**
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**5.3**	**1.5**	**4.7**	**5.5**	**9.7**
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	**5**	<2	**4**	<2	**7**
Copper	7440-50-8	5	mg/kg	**6**	<5	<5	<5	**6**
Lead	7439-92-1	5	mg/kg	**8**	<5	**8**	**6**	**13**
Nickel	7440-02-0	2	mg/kg	**4**	<2	<2	<2	**5**
Zinc	7440-66-6	5	mg/kg	**25**	**8**	**14**	**30**	**26**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
^ **Total Chlordane (sum)**	----	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			Sample ID	**QA01A**	**QA03A**	**QA04A**	**QA06A**	**QA08A**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00
Compound	*CAS Number*	*LOR*	*Unit*	**ES2303326-001**	**ES2303326-003**	**ES2303326-004**	**ES2303326-006**	**ES2303326-008**
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	----	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	<0.05	<0.05	<0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	**1.0**	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	**6.5**	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	**5.7**	<0.5

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

			Sample ID	QA01A	QA03A	QA04A	QA06A	QA08A
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00
Compound	CAS Number	LOR	Unit	ES2303326-001	ES2303326-003	ES2303326-004	ES2303326-006	ES2303326-008
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	**1.7**	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	**2.3**	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	**2.5**	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	**1.1**	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	**1.9**	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	**1.2**	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	**1.3**	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	**25.2**	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	**2.6**	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	**2.8**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	**3.1**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			Sample ID	**QA01A**	**QA03A**	**QA04A**	**QA06A**	**QA08A**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00
Compound	CAS Number	LOR	Unit	**ES2303326-001**	**ES2303326-003**	**ES2303326-004**	**ES2303326-006**	**ES2303326-008**
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	**103**	----	**76.7**	**75.2**	**108**
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	**85.9**	----	**69.8**	**77.8**	**98.6**
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	**84.3**	----	**70.5**	**79.9**	**94.1**
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**93.5**	**91.4**	**90.6**	**89.0**	**93.0**
2-Chlorophenol-D4	93951-73-6	0.5	%	**91.4**	**90.5**	**88.5**	**86.5**	**90.7**
2.4.6-Tribromophenol	118-79-6	0.5	%	**66.7**	**67.3**	**64.8**	**66.1**	**68.9**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**99.4**	**98.6**	**97.2**	**96.7**	**98.4**
Anthracene-d10	1719-06-8	0.5	%	**100**	**99.3**	**96.6**	**96.3**	**98.3**
4-Terphenyl-d14	1718-51-0	0.5	%	**91.9**	**92.4**	**91.1**	**87.4**	**92.2**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**108**	**109**	**107**	**116**	**104**
Toluene-D8	2037-26-5	0.2	%	**108**	**104**	**108**	**116**	**102**
4-Bromofluorobenzene	460-00-4	0.2	%	**106**	**106**	**106**	**112**	**103**

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			Sample ID	**QA09**	**QA10A**	**QA11A**	**----**	**----**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	**ES2303326-009**	**ES2303326-010**	**ES2303326-011**	**--------**	**--------**
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**2.0**	**6.5**	**2.6**	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	<2	**6**	**4**	----	----
Copper	7440-50-8	5	mg/kg	<5	<5	<5	----	----
Lead	7439-92-1	5	mg/kg	<5	**6**	<5	----	----
Nickel	7440-02-0	2	mg/kg	<2	**3**	<2	----	----
Zinc	7440-66-6	5	mg/kg	**13**	**21**	**9**	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.05	----	----
^ **Total Chlordane (sum)**	----	0.05	mg/kg	----	----	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg	----	----	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	----	----	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	----	----	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	<0.05	----	----
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg	----	----	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	----	----	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	<0.05	----	----

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			*Sample ID*	**QA09**	**QA10A**	**QA11A**	**----**	**----**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	----	----
Compound	*CAS Number*	*LOR*	*Unit*	**ES2303326-009**	**ES2303326-010**	**ES2303326-011**	**--------**	**--------**
				Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDT	50-29-3	0.2	mg/kg	----	----	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg	----	----	<0.2	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg	----	----	<0.05	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg	----	----	<0.05	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	----	----	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	----	----	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	----	----	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg	----	----	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg	----	----	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	----	----	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	----	----	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg	----	----	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg	----	----	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	----	----	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg	----	----	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	----	----	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	----	----	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	----	----	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	----	----	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg	----	----	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg	----	----	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg	----	----	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	----	----	<0.05	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			*Sample ID*	**QA09**	**QA10A**	**QA11A**	**----**	**----**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	----	----
Compound	*CAS Number*	*LOR*	*Unit*	**ES2303326-009**	**ES2303326-010**	**ES2303326-011**	**--------**	**--------**
				Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	----	----
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg	<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg	<50	<50	<50	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg	<50	<50	<50	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			Sample ID	**QA09**	**QA10A**	**QA11A**	**----**	**----**
			Sampling date / time	25-Jan-2023 00:00	25-Jan-2023 00:00	25-Jan-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	**ES2303326-009**	**ES2303326-010**	**ES2303326-011**	**--------**	**--------**
				Result	Result	Result	----	----
EP080: BTEXN - Continued								
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	**94.4**	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	----	----	**82.0**	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	----	----	**85.3**	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**89.4**	**90.3**	**90.7**	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	**88.7**	**88.7**	**89.2**	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	**67.1**	**62.7**	**64.1**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**97.4**	**96.4**	**97.2**	----	----
Anthracene-d10	1719-06-8	0.5	%	**97.6**	**95.6**	**97.8**	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	**91.3**	**89.5**	**91.3**	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**111**	**104**	**103**	----	----
Toluene-D8	2037-26-5	0.2	%	**104**	**101**	**101**	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**102**	**103**	**102**	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**

		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130

APPENDIX G

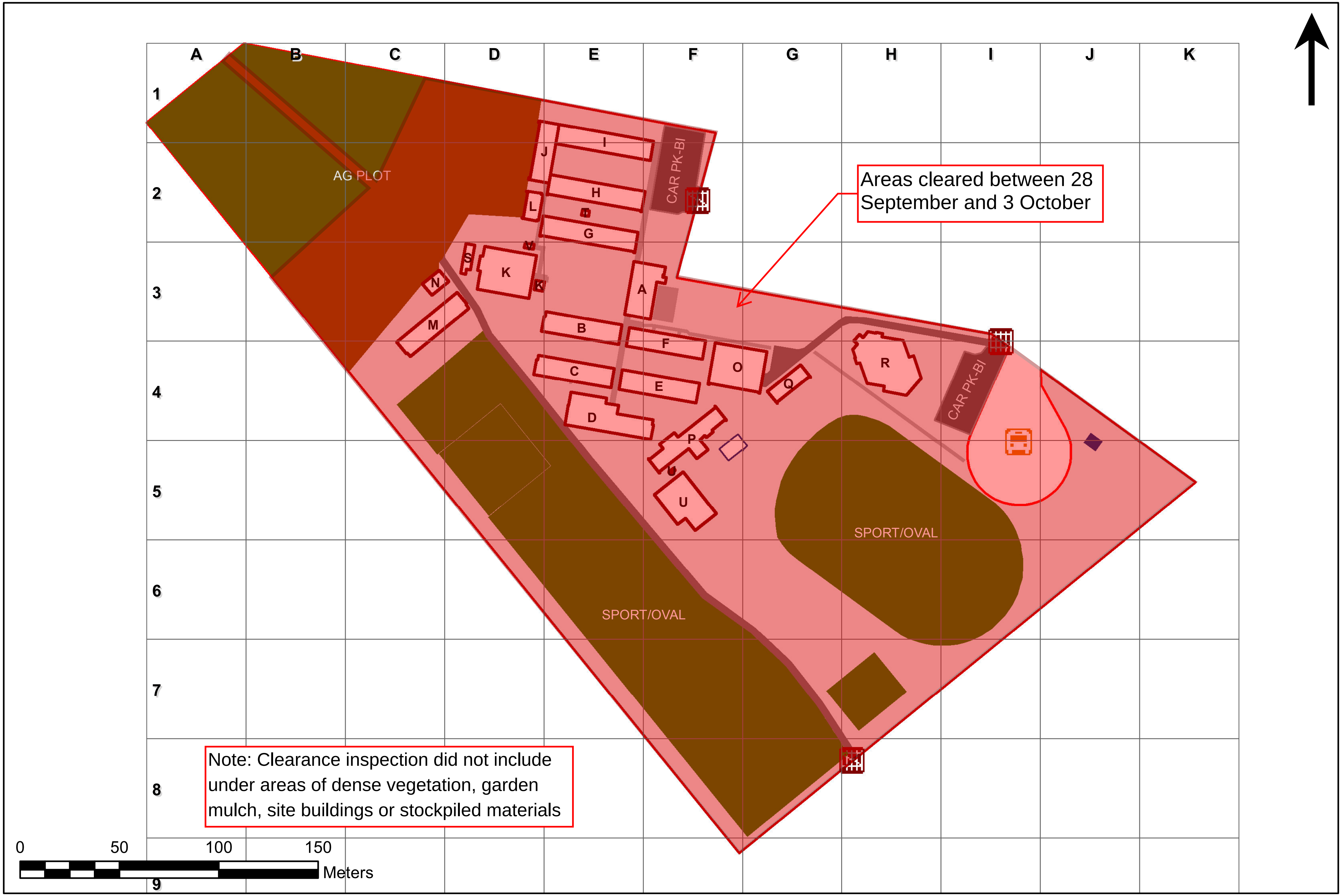
HISTORICAL ASBESTOS OCCURANCES

APPENDIX G-1

10 OCTOBER 2019 CLEARANCE AND SSAMP SITE PLAN AND CERTIFICATES OF ANALYSIS

8219 - Hunter River High School

Site Plan (11236)



Areas cleared between 28 September and 3 October

Note: Clearance inspection did not include under areas of dense vegetation, garden mulch, site buildings or stockpiled materials

1:2,382

Printed: 23-Mar-2015

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NCSI Certified Quality System ISO 9001

Certificate of Analysis

LOCATION: **Hunter River High School**

CERTIFICATE NO: **NEW-PS116538-119372**

CLIENT: HTS Group

CLIENT ADDRESS: 92 Glenwood Drive , Thornton NSW 2322

TELEPHONE: +61 448 860 041

EMAIL: craig@grouphts.com.au

CONTACT: Craig Oldfield

DATE\S SAMPLED: 30/09/2019

DATE RECEIVED: 1/10/2019

DATE ANALYSED: 1/10/2019

ORDER NUMBER: N/A

SAMPLED BY: Joshua Trahair

TEST METHOD: Qualitative identification of asbestos fibres in bulk and soil samples at WSP Corporate Laboratories by polarised light microscopy, including dispersion staining, in accordance with AS4964 (2004) Method for the qualitative identification of asbestos in bulk samples and WSP's Laboratory Procedure (LP3 - Identification of Asbestos Fibres). Trace analysis carried out on all non-homogenous samples. Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Sample Description	Sample Dimensions	Identification Type
001	WSP-057701	AG area	Fibre Cement Debris	45 gm	A, CH
002	WSP-057702	South of D Block	Fibre Cement Debris	23 gm	A, CH
003	WSP-057703	South of I Block	Fibre Cement Debris	18 gm	CH
004	WSP-057704	South of K Block	Fibre Cement Debris	27 gm	A, CH
005	WSP-057705	Sport/oval	Fibre Cement Debris	32 gm	OF, NAD

LEGEND:

NAD - No Asbestos Detected
CH - Chrysotile Asbestos Detected
A - Amosite Asbestos Detected
C - Crocidolite Asbestos Detected
UMF - Unknown Mineral Fibres Detected
SMF - Synthetic Mineral Fibres Detected
OF - Organic Fibres Detected

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.

NATA

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COMPETENCE

Approved Identifier

Name: Clare Brockbank

CBrockbank

Approved Signatory

Name: Laura Wilson-Dennis

AUTHORISATION DATE

Tuesday, 1 October 2019

Notes:
If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples then confirmation by another independent analytical technique is advised due to the nature of the samples.
The results contained within this report relate only to the sample(s) submitted for testing. The laboratory accepts no responsibility for location, sampling date, sample ID, sampler, and client details provided by the sampler. WSP accepts no responsibility for the initial collection, packaging or transportation of samples submitted by external persons. NATA does not accredit the sampling process, therefore sampling is not covered by the scope of accreditation. This document may not be reproduced except in full.

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Certificate of Analysis

LOCATION:	**Hunter River High School**	**CERTIFICATE NO:**	**NEW-PS116538-119323**
CLIENT:	HTS Group	DATE\S SAMPLED:	28/09/2019
CLIENT ADDRESS:	92 Glenwood Drive , Thornton NSW 2322	DATE RECEIVED:	30/09/2019
TELEPHONE:	+61 448 860 041	DATE ANALYSED:	30/09/2019
EMAIL:	craig@grouphts.com.au	ORDER NUMBER:	N/A
CONTACT:	Craig Oldfield	SAMPLED BY:	Joshua Trahair

TEST METHOD: Filters examined at WSP Corporate Laboratories in accordance with N.O.H.S.C (2005) Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres and WSP’s Laboratory Procedure (LP4 - Counting of Asbestos and Synthetic Mineral Fibres). Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Results (Fibres/Field)	Concentration (Fibres/mL)
WIP:				
001	8025	External - Temporary fence adjacent C Block	1.0 / 100	<0.01
002	4379	External - Temporary fence adjacent J and I Blocks	0.0 / 100	<0.01
003	7886	External - On fence post adjacent carpark and B Block	0.0 / 100	<0.01
004	4399	External - On bubbler adjacent O Block canteen	1.0 / 100	<0.01
005	4389	External - On bin adjacent main entrance and carpark	0.0 / 100	<0.01
006	7968	External - On hand rail between P and D Blocks	1.0 / 100	<0.01

Approved Counter

Name: Clare Brockbank

CBrockbank

NB: If the fibre count is less than 10 fibres per 100 fields then the count is not significantly above that of background. Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust. [N.O.H.S.C.:3003 (2005)]

NATA

ACCREDITED FOR
TECHNICAL
COMPETENCE

Approved Signatory

Name: Clare Brockbank

CBrockbank

AUTHORISATION DATE

Monday, 30 September 2019

WSP Australia Pty Limited

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ABN 80 078 004 798

NCSI Certified Quality System ISO 9001

Certificate of Analysis

LOCATION:	**Hunter River High School**	**CERTIFICATE NO:**	**NEW-PS116538-119373**
CLIENT:	HTS Group	DATE\S SAMPLED:	30/09/2019
CLIENT ADDRESS:	92 Glenwood Drive , Thornton NSW 2322	DATE RECEIVED:	1/10/2019
TELEPHONE:	+61 448 860 041	DATE ANALYSED:	1/10/2019
EMAIL:	craig@grouphts.com.au	ORDER NUMBER:	N/A
CONTACT:	Craig Oldfield	SAMPLED BY:	Joshua Trahair

TEST METHOD: Filters examined at WSP Corporate Laboratories in accordance with N.O.H.S.C (2005) Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres and WSP's Laboratory Procedure (LP4 - Counting of Asbestos and Synthetic Mineral Fibres). Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Results (Fibres/Field)	Concentration (Fibres/mL)
WIP:				
001	7693	External - On temporary fence behind D Block	3.0 / 100	<0.01
002	4188	External - On boundary fence south-west side adjacent sport/oval	0.0 / 100	<0.01
003	7758	External - In Ag yard between S and N Block	1.0 / 100	<0.01
004	4389	External - In Ag area behind J Block	1.0 / 100	<0.01
005	4143	External - On north corner of tennis court fence	0.0 / 100	<0.01

Approved Counter

Name: Clare Brockbank

CBrockbank

NB: If the fibre count is less than 10 fibres per 100 fields then the count is not significantly above that of background. Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust. [N.O.H.S.C.:3003 (2005)]

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ACCREDITED FOR
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Approved Signatory

Name: Clare Brockbank

CBrockbank

AUTHORISATION DATE

Tuesday, 1 October 2019

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NCSI Certified Quality System ISO 9001

Certificate of Analysis

LOCATION:	**Hunter River High School**	**CERTIFICATE NO:**	**SYD-PS116538-119494**
CLIENT:	HTS Group	DATE\S SAMPLED:	1/10/2019
CLIENT ADDRESS:	92 Glenwood Drive , Thornton NSW 2322	DATE RECEIVED:	3/10/2019
TELEPHONE:	+61 448 860 041	DATE ANALYSED:	3/10/2019
EMAIL:	craig@groupths.com.au	ORDER NUMBER:	N/A
CONTACT:	Craig Oldfield	SAMPLED BY:	Joshua Trahair

TEST METHOD: Filters examined at WSP Corporate Laboratories in accordance with N.O.H.S.C (2005) Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres and WSP's Laboratory Procedure (LP4 - Counting of Asbestos and Synthetic Mineral Fibres). Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Results (Fibres/Field)	Concentration (Fibres/mL)
WIP:				
001	7853	External, front gate service entry	0.0 / 100	<0.01
002	7682	External, fence adjacent carpark	0.0 / 100	<0.01
003	7875	External, fence between Q Block and oval	1.0 / 100	<0.01
004	7942	External, temporary fence along road south of C Block	0.0 / 100	<0.01

Approved Counter

Name: Vanessa Riley

Riley

NB: If the fibre count is less than 10 fibres per 100 fields then the count is not significantly above that of background. Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust. [N.O.H.S.C.:3003 (2005)]

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Approved Signatory

Name: Sneha Shakya

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Thursday, 3 October 2019

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Certificate of Analysis

LOCATION: **Hunter River High School**

CERTIFICATE NO: **SYD-PS116538-119496**

CLIENT: HTS Group

CLIENT ADDRESS: 92 Glenwood Drive , Thornton NSW 2322

TELEPHONE: +61 448 860 041

EMAIL: craig@groupths.com.au

CONTACT: Craig Oldfield

DATE\S SAMPLED: 2/10/2019

DATE RECEIVED: 3/10/2019

DATE ANALYSED: 3/10/2019

ORDER NUMBER: N/A

SAMPLED BY: Joshua Trahair

TEST METHOD: Filters examined at WSP Corporate Laboratories in accordance with N.O.H.S.C (2005) Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres and WSP's Laboratory Procedure (LP4 - Counting of Asbestos and Synthetic Mineral Fibres). Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Results (Fibres/Field)	Concentration (Fibres/mL)
WIP:				
001	7981	External, east site boundary adjacent gate	0.0 / 100	<0.01
002	7885	External. east site boundary adjacent oval	0.0 / 100	<0.01
003	8013	External, at main gate north of oval	0.0 / 100	<0.01
004	7907	External, on fence west of oval	0.0 / 100	<0.01

NB: If the fibre count is less than 10 fibres per 100 fields then the count is not significantly above that of background. Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust. [N.O.H.S.C.:3003 (2005)]

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Approved Counter

Name: Vanessa Riley

Riley

Approved Signatory

Name: Sneha Shakya

AUTHORISATION DATE

Thursday, 3 October 2019

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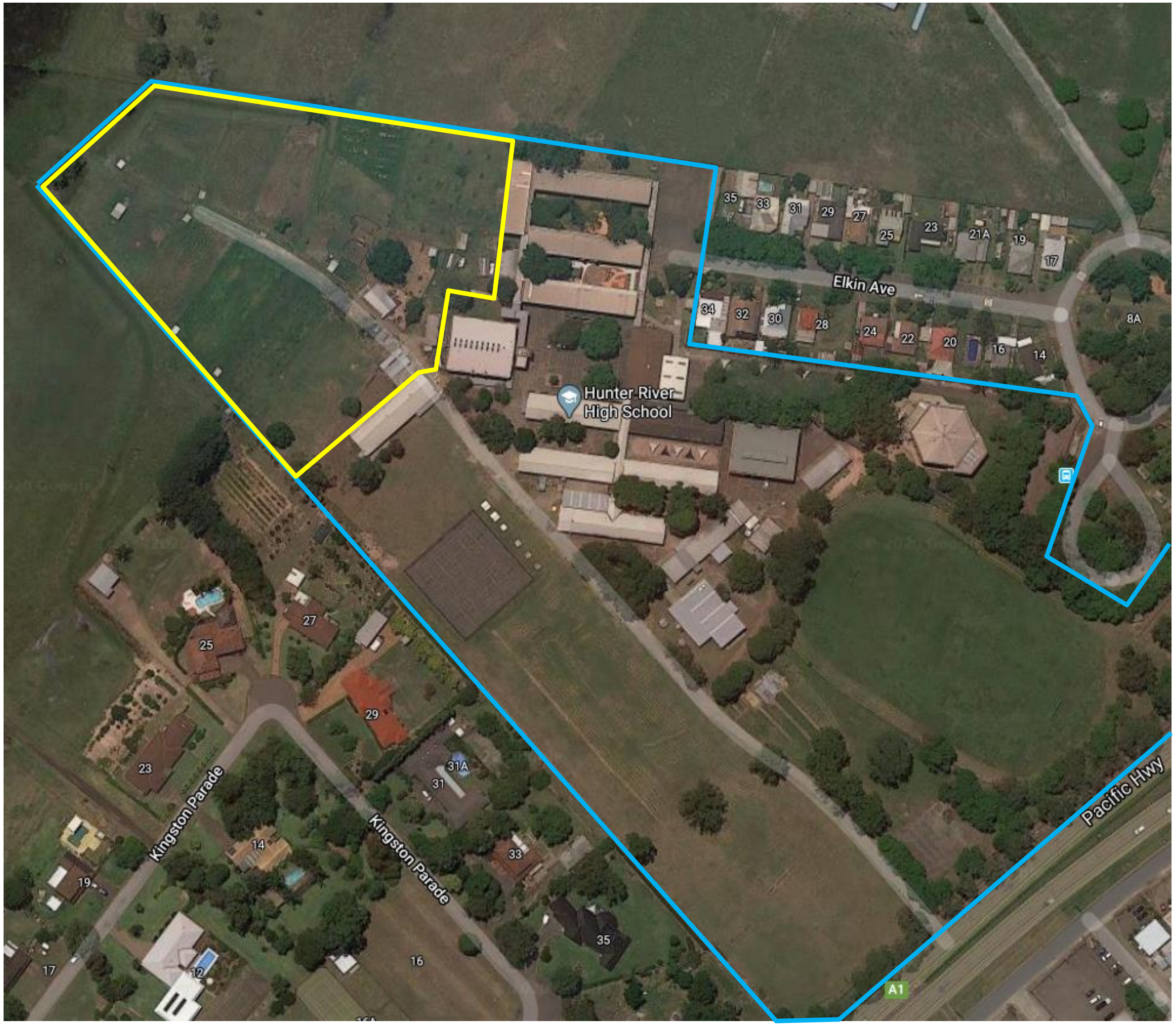
APPENDIX G-2

4 MAY 2020 AG PLOT RISK ASSESSMENT SITE PLAN AND CERTIFICATES OF ANALYSIS

Hunter River High School
Agriculture Plot Asbestos Risk Assessment



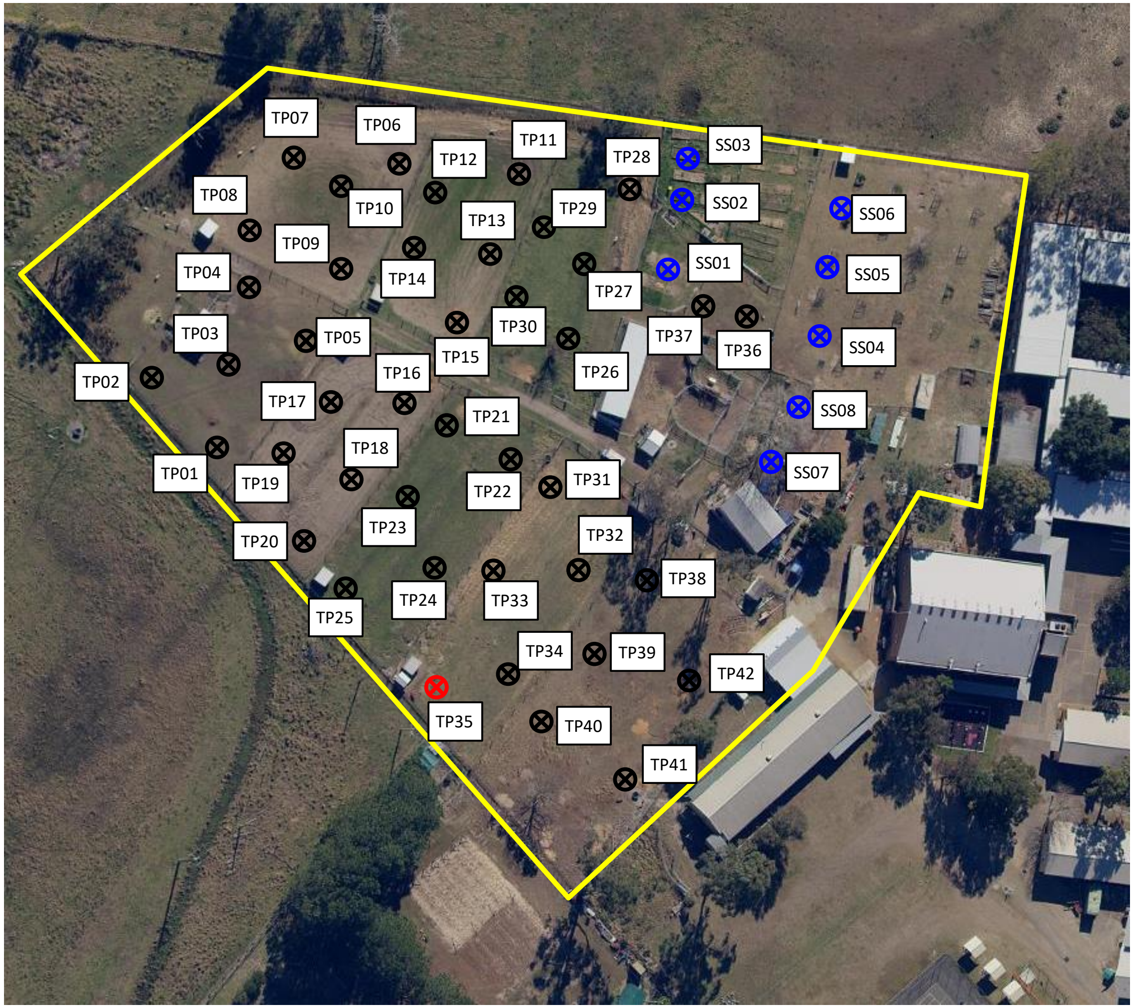
0 50
m

N

Legend

🟦	Approximate school boundary
🟨	Agriculture plot area (investigation area)

Figure 1
Site location



0 20 m

N

Legend

🟨 Approximate investigation area

⊗ Approximate test pit locations

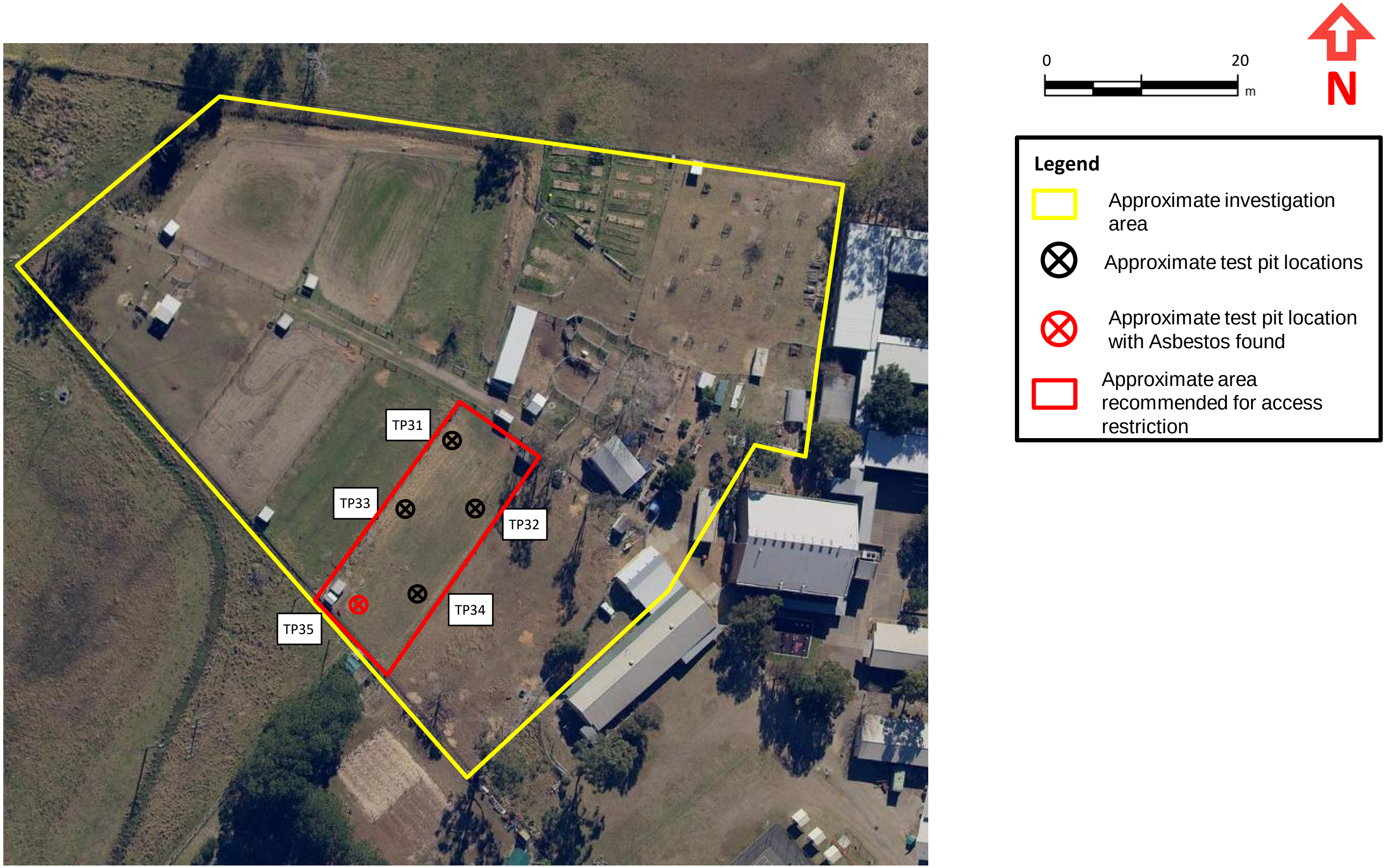
⊗ Approximate surface sample locations

⊗ Approximate test pit location with Asbestos found

Note: Blue markers indicates surface sample location only due to restricted access of the excavator

Figure 2
Test pit locations

Hunter River High School
Agriculture Plot Asbestos Risk Assessment



Legend

🟨	Approximate investigation area
⊗	Approximate test pit locations
⊗	Approximate test pit location with Asbestos found
🟥	Approximate area recommended for access restriction

Figure 3
Access restriction

WSP

GRAVIMETRIC DETERMINATION AND QUANTIFICATION OF ASBESTOS IN SOIL

HUNTER RIVER HIGH SCHOOL - AGRICULTURE PLOT

APRIL 2020

GRAVIMETRIC DETERMINATION AND QUANTIFICATION OF ASBESTOS IN SOIL

HUNTER RIVER HIGH SCHOOL - AGRICULTURE PLOT

WSP

WSP
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NEWCASTLE NSW 2300
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NEWCASTLE NSW 2300

TEL: +61 2 4929 8300
FAX: +61 2 4929 8382
WSP.COM

REV	DATE	DETAILS
A	03/04/2020	Hunter River High School - Agriculture plot_NEW-PS118685-127168.pdf

	NAME	DATE	SIGNATURE
Prepared by:	Shannon Bradford	03/04/2020	
Reviewed by:	Shannon Bradford	03/04/2020	

ABBREVIATIONS

A	Amosite Asbestos Detected
ACM	Asbestos Containing Material
AF	Asbestos Fines
C	Crocidolite Asbestos Detected
CH	Chrysotile Asbestos Detected
FA	Fibrous Asbestos
NAD	No Asbestos Detected
NEPM	National Environment Protection Measures
OF	Organic Fibres Detected
PLM	Polarised Light Microscopy
SMF	Synthetic Mineral Fibres Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS METHODOLOGY

AS 4964-2004 - Soils: Samples received by the laboratory are analysed in accordance with section 8.2.3 *Soil Samples* of Australian Standard (AS 4964-2004). Trace analysis is conducted in accordance with section 8.4 *Trace analysis criteria* of the standard. Asbestos analysis is conducted in accordance with the standard section 8.3.3 *Analytical criteria*, and follows methodology outlined in Appendix D *Simplified flowchart for bulk asbestos identification.*

Quantification of Asbestos in Soils: There is no accepted valid analytical method in Australia for estimating the concentration of asbestos in soils. NATA does not accredit facilities for the estimation of the concentration of ACM or free asbestos fibres in soils. This report is consistent with the analytical procedures and reporting recommendations in the Western Australia *Guidelines for the Assessment, Remediation, and Management of Asbestos-Contaminated Sites in Western Australia – May 2009* and Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater [National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)].

Percentages for asbestos content in materials and reporting limits of percentage weight for weight asbestos in soil are based on values outlined in Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater [National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)]. Non-Friable (ACM) weight is calculated based on the assumption of 15% asbestos by weight in non-friable ACM products used in Australia. Friable asbestos weight, including Fibrous Asbestos (AF) and Asbestos Fines (AF), is calculated based on the assumption of 100% asbestos by weight.

The reporting limit 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 reporting limit is not applicable to free fibres (Respirable Fibres). Loose respirable fibres are detected under criteria set by Australian Standard (AS 4964-2004), section 8.4 *Trace analysis criteria*, with an implied detection and reporting limit of 0.1g/kg.

METHOD SPECIFIC DEFINITION

- Asbestos Containing Materials (ACM) - comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin (e.g. asbestos fencing and vinyl tiles). This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.
- Fibrous Asbestos (FA) - comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded (friable) or was previously bonded and is now significantly degraded (crumbling).
- Asbestos Fines (AF) - AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

All calculations of percentage asbestos under this method are approximate and should be used as a guide only. Such results cannot be used in place of field evaluations.

These quantitative results are not covered by the scope of NATA accreditation.

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 105601	SAMPLE: 105605	SAMPLE: 105607	SAMPLE: 105610	SAMPLE: 105613	SAMPLE: 105617	SAMPLE: 105619	SAMPLE: 105624	SAMPLE: 105626	SAMPLE: 105628
Total Soil Weight	g	1	526	514	489	513	492	481	540	518	513	524
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 105632	SAMPLE: 105634	SAMPLE: 105637	SAMPLE: 105642	SAMPLE: 105644	SAMPLE: 105646	SAMPLE: 105650	SAMPLE: 105652	SAMPLE: 105656	SAMPLE: 105659
Total Soil Weight	g	1	517	494	501	491	494	473	487	489	489	506
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 105661	SAMPLE: 105664	SAMPLE: 105669	SAMPLE: 105670	SAMPLE: 105673	SAMPLE: 105676	SAMPLE: 105678	SAMPLE: 105681	SAMPLE: 105686	SAMPLE: 105687
Total Soil Weight	g	1	521	493	501	481	506	480	463	500	475	539
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 105691	SAMPLE: 105693	SAMPLE: 105696	SAMPLE: 105699	SAMPLE: 71503	SAMPLE: 71505	SAMPLE: 71510	SAMPLE: 71512	SAMPLE: 71515	SAMPLE: 71517
Total Soil Weight	g	1	530	543	540	544	534	490	551	591	572	520
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 71522	SAMPLE: 71524	SAMPLE: 71526	SAMPLE: 71527	SAMPLE: 71528	SAMPLE: 71529	SAMPLE: 71530	SAMPLE: 71531	SAMPLE: 71532	SAMPLE: 71533
Total Soil Weight	g	1	580	521	755	825	790	1120	1010	1079	1142	1041
Asbestos Type Detected	N/A	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No	No	No	No	No	No	No	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

APPENDIX A

AS 4964 LABORATORY CERTIFICATES

WSP Australia
Pty Limited

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- -
Telephone +61 2 49298331
Facsimile -
Email ANZLab@wsp.com

ABN 80 078 004 798
NCSI Certified Quality System ISO 9001

Certificate of Analysis

LOCATION:	**Hunter River High School - Agriculture plot**	**CERTIFICATE NO:**	**NEW-PS118685-127168**
CLIENT:	Department of Education - Hunter	DATE\S SAMPLED:	19/03/2020 to 20/03/2020
CLIENT ADDRESS:	PO BOX 5658, Gateshead West NSW 2290	DATE RECEIVED:	26/03/2020
TELEPHONE:	0436 626 628	DATE ANALYSED:	2/04/2020
EMAIL:	lisa.clark46@det.nsw.edu.au	ORDER NUMBER:	N/A
CONTACT:	Lisa Clark	SAMPLED BY:	Jack Flanagan

TEST METHOD: Qualitative identification of asbestos fibres in bulk and soil samples at WSP Corporate Laboratories by polarised light microscopy, including dispersion staining, in accordance with AS4964 (2004) Method for the qualitative identification of asbestos in bulk samples and WSP's Laboratory Procedure (LP3 - Identification of Asbestos Fibres). Trace analysis carried out on all non-homogenous samples. Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Sample Description	Sample Dimensions	Identification Type
001	105601	TP01_0.1	Soil	526 gm	OF, NAD*
002	105602	TP01_0.5	Soil	53 gm	OF, NAD*
003	105604	TP02_0.1	Soil	55 gm	OF, NAD*
004	105605	TP02_0.5	Soil	514 gm	OF, NAD*
005	105607	TP03_0.1	Soil	489 gm	OF, NAD*
006	105608	TP03_0.5	Soil	53 gm	OF, NAD*
007	105610	TP04_0.1	Soil	513 gm	OF, NAD*
008	105611	TP04_0.5	Soil	50 gm	OF, NAD*
009	105613	TP05_0.1	Soil	492 gm	OF, NAD*
010	105615	TP05_1.0	Soil	51 gm	OF, NAD*
011	105616	TP06_0.1	Soil	51 gm	OF, NAD*
012	105617	TP06_0.5	Soil	481 gm	OF, NAD*
013	105619	TP07_0.1	Soil	540 gm	OF, NAD*
014	105620	TP07_0.5	Soil	51 gm	OF, NAD*
015	105622	TP08_0.1	Soil	50 gm	OF, NAD*
016	105624	TP08_1.0	Soil	518 gm	OF, NAD*
017	105625	TP09_0.1	Soil	56 gm	OF, NAD*
018	105626	TP09_0.5	Soil	513 gm	OF, NAD*
019	105628	TP10_0.1	Soil	524 gm	OF, NAD*
020	105629	TP10_0.5	Soil	47 gm	OF, NAD*
021	105631	TP11_0.1	Soil	54 gm	OF, NAD*
022	105632	TP11_0.5	Soil	517 gm	OF, NAD*
023	105634	TP12_0.1	Soil	494 gm	OF, NAD*
024	105635	TP12_0.5	Soil	53 gm	OF, NAD*
025	105637	TP13_0.1	Soil	501 gm	OF, NAD*
026	105638	TP13_0.5	Soil	52 gm	OF, NAD*
027	105640	TP14_0.1	Soil	57 gm	OF, NAD*

Certificate of Analysis

LOCATION: **Hunter River High School - Agriculture plot**

CERTIFICATE NO: **NEW-PS118685-127168**

Lab No	Sample ID	Location	Sample Description	Sample Dimensions	Identification Type
028	105642	TP14_1.0	Soil	491 gm	OF, NAD*
029	105643	TP15_0.1	Soil	48 gm	OF, NAD*
030	105644	TP15_0.5	Soil	494 gm	OF, NAD*
031	105646	TP16_0.1	Soil	473 gm	OF, NAD*
032	105647	TP16_0.5	Soil	54 gm	OF, NAD*
033	105649	TP17_0.1	Soil	53 gm	OF, NAD*
034	105650	TP17_0.5	Soil	487 gm	OF, NAD*
035	105652	TP18_0.1	Soil	489 gm	OF, NAD*
036	105653	TP18_0.5	Soil	52 gm	OF, NAD*
037	105655	TP19_0.1	Soil	50 gm	OF, NAD*
038	105656	TP19_0.5	Soil	489 gm	OF, NAD*
039	105658	TP20_0.1	Soil	54 gm	OF, NAD*
040	105659	TP20_0.5	Soil	506 gm	OF, NAD*
041	105661	TP21_0.1	Soil	521 gm	OF, NAD*
042	105662	TP21_0.5	Soil	56 gm	OF, NAD*
043	105664	TP22_0.1	Soil	493 gm	OF, NAD*
044	105665	TP22_0.5	Soil	49 gm	OF, NAD*
045	105667	TP23_0.1	Soil	56 gm	OF, NAD*
046	105669	TP23_1.0	Soil	501 gm	OF, NAD*
047	105670	TP24_0.1	Soil	481 gm	OF, NAD*
048	105671	TP24_0.5	Soil	49 gm	OF, NAD*
049	105673	TP25_0.1	Soil	506 gm	OF, NAD*
050	105674	TP25_0.5	Soil	51 gm	OF, NAD*
051	105675	TP26_0.1	Soil	54 gm	OF, NAD*
052	105676	TP26_0.5	Soil	480 gm	OF, NAD*
053	105678	TP27_0.1	Soil	463 gm	OF, NAD*
054	105679	TP27_0.5	Soil	51 gm	OF, NAD*
055	105681	TP28_0.1	Soil	500 gm	OF, NAD*
056	105682	TP28_0.5	Soil	48 gm	OF, NAD*
057	105684	TP29_0.1	Soil	52 gm	OF, NAD*
058	105686	TP29_1.0	Soil	475 gm	OF, NAD*
059	105687	TP30_0.1	Soil	539 gm	OF, NAD*
060	105688	TP30_0.5	Soil	47 gm	OF, NAD*
061	105690	TP31_0.1	Soil	55 gm	OF, NAD*
062	105691	TP31_0.5	Soil	530 gm	OF, NAD*
063	105693	TP32_0.1	Soil	543 gm	OF, NAD*

Certificate of Analysis

LOCATION: **Hunter River High School - Agriculture plot** **CERTIFICATE NO:** **NEW-PS118685-127168**

Lab No	Sample ID	Location	Sample Description	Sample Dimensions	Identification Type
064	105694	TP32_1.0	Soil	48 gm	OF, NAD*
065	105696	TP33_0.1	Soil	540 gm	OF, NAD*
066	105697	TP33_0.5	Soil	58 gm	OF, NAD*
067	105699	TP34_0.1	Soil	544 gm	OF, NAD*
068	105700	TP34_0.5	Soil	52 gm	OF, NAD*
069	71502	TP35_0.1	Soil	51 gm	OF*
069A	71502	Sub sample of 71502	Fibre Cement Fragments	< 0.001 gm	CH
070	71503	TP35_0.5	Soil	534 gm	OF, NAD*
071	71505	TP36_0.1	Soil	490 gm	OF, NAD*
072	71506	TP36_0.5	Soil	65 gm	OF, NAD*
073	71508	TP37_0.1	Soil	55 gm	OF, NAD*
074	71510	TP37_1.0	Soil	551 gm	OF, SMF, NAD*
075	71511	TP38_0.1	Soil	58 gm	OF, NAD*
076	71512	TP38_0.5	Soil	591 gm	OF, NAD*
077	71514	TP39_0.1	Soil	54 gm	OF, NAD*
078	71515	TP39_0.5	Soil	572 gm	OF, NAD*
079	71517	TP40_0.1	Soil	520 gm	OF, NAD*
080	71518	TP40_0.5	Soil	55 gm	OF, NAD*
081	71520	TP41_0.1	Soil	55 gm	OF, NAD*
082	71522	TP41_1.0	Soil	580 gm	OF, NAD*
083	71523	TP42_0.1	Soil	59 gm	OF, NAD*
084	71524	TP42_0.5	Soil	521 gm	OF, NAD*
085	71526	SS01	Soil	755 gm	OF, NAD*
086	71527	SS02	Soil	825 gm	OF, NAD*
087	71528	SS03	Soil	790 gm	OF, NAD*
088	71529	SS04	Soil	1120 gm	OF, NAD*
089	71530	SS05	Soil	1010 gm	OF, NAD*
090	71531	SS06	Soil	1079 gm	OF, NAD*
091	71532	SS07	Soil	1142 gm	OF, NAD*
092	71533	SS08	Soil	1041 gm	OF, NAD*

Certificate of Analysis

<u>LOCATION:</u> **Hunter River High School - Agriculture plot** **<u>CERTIFICATE NO:</u>** **NEW-PS118685-127168**

LEGEND:

NAD	-	No Asbestos Detected
CH	-	Chrysotile Asbestos Detected
A	-	Amosite Asbestos Detected
C	-	Crocidolite Asbestos Detected
UMF	-	Unknown Mineral Fibres Detected
SMF	-	Synthetic Mineral Fibres Detected
OF	-	Organic Fibres Detected
Trace	-	Trace Asbestos Detected
*	-	No trace asbestos detected at the reporting limit of 0.1 g/kg

ACCREDITED FOR
TECHNICAL COMPETENCE

Approved Identifier

Name: Clare Brockbank

CBrockbank

Approved Signatory

Name: Shannon Bradford

AUTHORISATION DATE

Friday, 3 April 2020

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.

Notes:
If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples then confirmation by another independent analytical technique is advised due to the nature of the samples.
The results contained within this report relate only to the sample(s) submitted for testing. The laboratory accepts no responsibility for location, sampling date, sample ID, sampler, and client details provided by the sampler. WSP accepts no responsibility for the initial collection, packaging or transportation of samples submitted by external persons. NATA does not accredit the sampling process, therefore sampling is not covered by the scope of accreditation. This document may not be reproduced except in full.

WSP

GRAVIMETRIC DETERMINATION AND QUANTIFICATION OF ASBESTOS IN SOIL

HUNTER RIVER HIGH SCHOOL - AGRICULTURE PLOT

APRIL 2020

GRAVIMETRIC DETERMINATION AND QUANTIFICATION OF ASBESTOS IN SOIL

HUNTER RIVER HIGH SCHOOL - AGRICULTURE PLOT

WSP

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LEVEL 3, 51-55 BOLTON ST
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WSP.COM

REV	DATE	DETAILS
A	17/04/2020	Hunter River High School - Agriculture plot_NEW-PS118685-127953

	NAME	DATE	SIGNATURE
Prepared by:	Shannon Bradford	17/04/2020	
Reviewed by:	Shannon Bradford	17/04/2020	

ABBREVIATIONS

A	Amosite Asbestos Detected
ACM	Asbestos Containing Material
AF	Asbestos Fines
C	Crocidolite Asbestos Detected
CH	Chrysotile Asbestos Detected
FA	Fibrous Asbestos
NAD	No Asbestos Detected
NEPM	National Environment Protection Measures
OF	Organic Fibres Detected
PLM	Polarised Light Microscopy
SMF	Synthetic Mineral Fibres Detected
UMF	Unknown Mineral Fibres Detected

ANALYSIS METHODOLOGY

AS 4964-2004 - Soils: Samples received by the laboratory are analysed in accordance with section 8.2.3 *Soil Samples* of Australian Standard (AS 4964-2004). Trace analysis is conducted in accordance with section 8.4 *Trace analysis criteria* of the standard. Asbestos analysis is conducted in accordance with the standard section 8.3.3 *Analytical criteria*, and follows methodology outlined in Appendix D *Simplified flowchart for bulk asbestos identification.*

Quantification of Asbestos in Soils: There is no accepted valid analytical method in Australia for estimating the concentration of asbestos in soils. NATA does not accredit facilities for the estimation of the concentration of ACM or free asbestos fibres in soils. This report is consistent with the analytical procedures and reporting recommendations in the Western Australia *Guidelines for the Assessment, Remediation, and Management of Asbestos-Contaminated Sites in Western Australia – May 2009* and Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater [National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)].

Percentages for asbestos content in materials and reporting limits of percentage weight for weight asbestos in soil are based on values outlined in Schedule B1 – Guideline on Investigation Levels for Soil and Groundwater [National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)]. Non-Friable (ACM) weight is calculated based on the assumption of 15% asbestos by weight in non-friable ACM products used in Australia. Friable asbestos weight, including Fibrous Asbestos (AF) and Asbestos Fines (AF), is calculated based on the assumption of 100% asbestos by weight.

The reporting limit 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 reporting limit is not applicable to free fibres (Respirable Fibres). Loose respirable fibres are detected under criteria set by Australian Standard (AS 4964-2004), section 8.4 *Trace analysis criteria*, with an implied detection and reporting limit of 0.1g/kg.

METHOD SPECIFIC DEFINITION

- Asbestos Containing Materials (ACM) - comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin (e.g. asbestos fencing and vinyl tiles). This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.
- Fibrous Asbestos (FA) - comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded (friable) or was previously bonded and is now significantly degraded (crumbling).
- Asbestos Fines (AF) - AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

All calculations of percentage asbestos under this method are approximate and should be used as a guide only. Such results cannot be used in place of field evaluations.

These quantitative results are not covered by the scope of NATA accreditation.

ANALYSIS RESULTS

	UNIT	LIMIT OF REPORTING	SAMPLE: 71502	SAMPLE: 71504
Total Soil Weight	g	1	1021	973
Asbestos Type Detected	N/A	-	NAD	NAD
Free Fibres (Respirable Fibres) in <2mm Sample	g/kg	0.1	No	No
ACM in >7mm Sample	g	0.001	<0.001	<0.001
FA & AF	g	0.001	<0.001	<0.001
ACM in >7mm Sample (as 15% Asbestos)	%w/w	0.01	<0.01	<0.01
FA & AF (as 100% asbestos)	%w/w	0.001	<0.001	<0.001

These quantitative results are not covered by the scope of NATA accreditation.

LEGEND:

NAD	No Asbestos Detected
CH	Chrysotile Asbestos Detected
A	Amosite Asbestos Detected
C	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibres Detected

APPENDIX A

AS 4964 LABORATORY CERTIFICATES

WSP Australia
Pty Limited

Level 3, 51-55 Bolton Street, Newcastle
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- -
Telephone +61 2 49298331
Facsimile -
Email ANZLab@wsp.com

ABN 80 078 004 798

NCSI Certified Quality System ISO 9001

Certificate of Analysis

LOCATION:	**Hunter River High School - Agriculture plot**	**CERTIFICATE NO:**	**NEW-PS118685-127953**
CLIENT:	Department of Education - Hunter	DATE\S SAMPLED:	19/03/2020 to 20/03/2020
CLIENT ADDRESS:	PO BOX 5658, Gateshead West NSW 2290	DATE RECEIVED:	26/03/2020
TELEPHONE:	0436 626 628	DATE ANALYSED:	17/04/2020
EMAIL:	lisa.clark46@det.nsw.edu.au	ORDER NUMBER:	N/A
CONTACT:	Lisa Clark	SAMPLED BY:	Jack Flanagan

TEST METHOD: Qualitative identification of asbestos fibres in bulk and soil samples at WSP Corporate Laboratories by polarised light microscopy, including dispersion staining, in accordance with AS4964 (2004) Method for the qualitative identification of asbestos in bulk samples and WSP's Laboratory Procedure (LP3 - Identification of Asbestos Fibres). Trace analysis carried out on all non-homogenous samples. Accredited for compliance with ISO/IEC: 17025 – Testing (No. 17199).

Lab No	Sample ID	Location	Sample Description	Sample Dimensions	Identification Type
001	71502	TP35_0.1	Soil	1021 gm	OF, NAD*
002	71504	TP35_1.0	Soil	973 gm	OF, NAD*

LEGEND:

NAD - No Asbestos Detected
CH - Chrysotile Asbestos Detected
A - Amosite Asbestos Detected
C - Crocidolite Asbestos Detected
UMF - Unknown Mineral Fibres Detected
SMF - Synthetic Mineral Fibres Detected
OF - Organic Fibres Detected
Trace - Trace Asbestos Detected
* - No trace asbestos detected at the reporting limit of 0.1 g/kg

NATA
ACCREDITED FOR
TECHNICAL COMPETENCE

Approved Identifier

Name: Clare Brockbank

CBrockbank

Approved Signatory

Name: Shannon Bradford

AUTHORISATION DATE

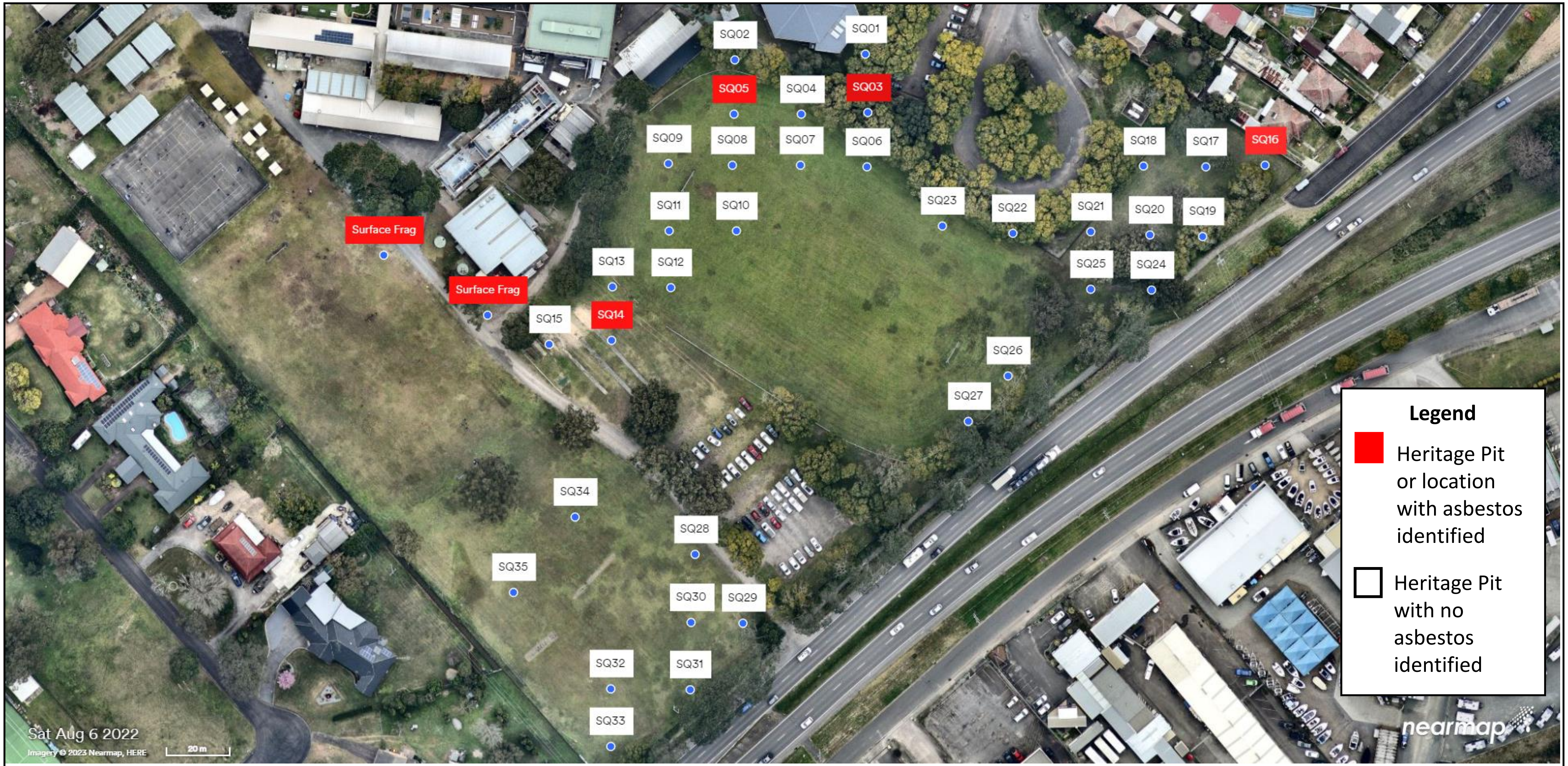
Friday, 17 April 2020

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.

Notes:
If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples then confirmation by another independent analytical technique is advised due to the nature of the samples.
The results contained within this report relate only to the sample(s) submitted for testing. The laboratory accepts no responsibility for location, sampling date, sample ID, sampler, and client details provided by the sampler. WSP accepts no responsibility for the initial collection, packaging or transportation of samples submitted by external persons. NATA does not accredit the sampling process, therefore sampling is not covered by the scope of accreditation. This document may not be reproduced except in full.

APPENDIX G-3

16 JANURARY 2023 HERITAGE ASSESSMENT MAKESAFE SITE PLAN AND CERTIFICATES OF ANALYSIS



Map: PS133903_FIG01

Author: N. Mason

Date: 20.01.2022

Approved: J. Trahair

Data Source: NearMap (accessed January 2023)

SCALE

0 20 40m

Hunter River High School Heritage Investigation
36 Elkin Ave, Heatherbrae NSW 2324

Figure 1: Approximate Heritage Pit Locations

School Infrastructure NSW

www.wsp.com

WSP Australia Pty Limited

WORLD RECOGNISED
ACCREDITATION

Level 3, 51-55 Bolton Street, Newcastle
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Telephone +61 2 49298331
Email ANZLab@wsp.com

ABN 80 078 004 798

Accredited for compliance with ISO/IEC:
17025 - Testing (No. 17199)
NCSI Certified Quality System ISO 9001

Certificate of Analysis

LOCATION: **Hunter River High School (8219)**

CERTIFICATE NO: **NEW-PS133903-158576**

CLIENT: Department of Education - Hunter/Central Coast AMU

DATE\S SAMPLED: 13/01/2023

CLIENT ADDRESS: PO BOX 5658, Gateshead West NSW 2290

DATE RECEIVED: 13/01/2023

TELEPHONE: 0412 994 703

DATE ANALYSED: 17/01/2023

EMAIL: cameron.johns15@det.nsw.edu.au

ORDER NUMBER: N/A

CONTACT: Cameron Johns

SAMPLED BY: Nicholas Mason

TEST METHOD: Qualitative identification of asbestos fibres in bulk and soil samples at WSP Corporate Laboratories by polarised light microscopy, including dispersion staining, in accordance with AS4964 (2004) Method for the qualitative identification of asbestos in bulk samples and WSP's Laboratory Procedure (LP3 - Identification of Asbestos Fibres). Trace analysis carried out on all non-homogenous samples.

Lab No	Sample ID	Location	Description	Dimensions	Identification Type
001	229205	SQ03A Spit 2 (0.2 mBGL)	Fibre Cement Debris	1 g	A, CH
002	229206	SQ08A Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
003	229208	SQ14B Spit 3 (0.3 mBGL)	Fibre Cement Debris	5 g	A, CH
004	229209	SQ03B Spit 7 (0.7 mBGL)	Debris	1 g	NAD¹
005	229210	SQ16B Spit 2 (0.2 mBGL)	Fibre Cement Debris	5 g	A, C, CH
006	229211	SQ16B Spit 3 (0.3 mBGL)	Fibre Cement Debris	6 g	A, C, CH
007	229212	SQ12A Spit 2 (0.2 mBGL)	Debris	2 g	NAD¹
008	229213	SQ14A Spit 1 (0.1 mBGL)	Fibre Cement Debris	1 g	OF, NAD
009	229214	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
010	229215	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
012	229217	SQ09B Spit 2 (0.2 mBGL)	Rock	1 g	NAD¹
013	229218	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
014	229219	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
015	229220	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
016	229221	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
017	229222	SQ09B Spit 2 (0.2 mBGL)	Rock	1 g	NAD¹
019	229224	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
020	229225	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
021	229226	SQ09B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
022	229227	SQ02B Spit 1 (0.1 mBGL)	Fibre Cement Debris	2 g	OF, NAD
023	229228	SQ02B Spit 1 (0.1 mBGL)	Fibre Cement Debris	2 g	OF, NAD
024	229229	SQ08B Spit 2 (0.2 mBGL)	Fibre Cement Debris	1 g	OF, NAD
025	229232	SQ08B Spit 2 (0.2 mBGL)	Debris	1 g	NAD¹
026	229233	SQ16B Spit 7 (0.7 mBGL)	Fibre Cement Debris	4 g	A, C, CH
027	229234	SQ16B Spit 7 (0.7 mBGL)	Fibre Cement Debris	3 g	A, C, CH
028	229235	SQ16B Spit 2 (0.2 mBGL)	Fibre Cement Debris	5 g	A, C, CH
029	229239	SQ05B Spit 1 (0.1 mBGL)	Debris	1 g	NAD¹

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ACCREDITATION

LOCATION: **Hunter River High School (8219)** **CERTIFICATE NO:** **NEW-PS133903-158576**

Lab No	Sample ID	Location	Description	Dimensions	Identification Type
030	229240	SQ08B Spit 2 (0.2 mBGL)	Debris	3 g	NAD[1]
031	229241	Block T East side access road	Fibre Cement Sheet	3 g	A, C, CH
032	229242	SQ05A Spit 3 (0.3 mBGL)	Fibre Cement Sheet	6 g	CH, OF
033	229243	Basketball Court North side access road	Fibre Cement Sheet	2 g	A, CH
034	229246	SQ05A Spit 2 (0.2 mBGL)	Debris	3 g	NAD[1]

LEGEND:

NAD - No Asbestos Detected
CH - Chrysotile Asbestos Detected
A - Amosite Asbestos Detected
C - Crocidolite Asbestos Detected
UMF - Unknown Mineral Fibres Detected
SMF - Synthetic Mineral Fibres Detected
OF - Organic Fibres Detected
[1] - No asbestos detected at the reporting limit of 0.1 g/kg
[2] - Identification not possible due to adhering materials
[3] - Identification not possible due to degradation of fibres

Approved Identifier

Name: Gerrad Morgan

Approved Signatory

Name: Melanie Reed

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.

Notes:
If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples, then confirmation by another independent analytical technique is advised due to the nature of the samples. UMF may or may not be asbestos, confirmation by another independent analytical technique is advised.
The results contained within this report relate only to the sample(s) submitted for testing.
Sampling is not covered by the scope of accreditation.
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AUTHORISATION DATE

Tuesday, 17 January 2023